

Heavy Industrial Panel PC

IEI's rugged industrial panel PCs (PPC) have a new flat bezel IP 64 or IP 65 aluminum front panels suitable for the demands of harsh industrial environments. Powerful Intel® Core™ 2 Extreme/Quad/Duo, Pentium®/Celeron® processor, and the low power Atom™ D525 dual-core processor come integrated on a wide range of feature-rich IEI embedded mother boards that drive the IEI industrial PPCs. Multi I/Os and expansion capabilities enable you to interface your system with many external devices.



PPC-27 Series



Compact Size Panel PC

- Space-saving and Cost-conscious Applications
- Reliable Fanless and Low Power Consumption System with LED Backlighting

The thin compact design is ideal for cost conscious applications. Integrated with AMD LX800 processor, the low power consumption solution is perfect for space-saving as well as operation in harsh environments.

	LCD Size	Platform	Expansion Slot	Fanless
PPC-2706G	6.5"	AMD Geode LX800 500MHz	N/A	Fanless
PPC-2708G	8.4"			
PPC-2710G	10.4"		1 x Mini PCI	
PPC-2712G	12.1"			

PPC-37 Series



Advanced Slim Size Panel PC

- Fanless Intel® Atom™ N270 Solution
- Slim Size Dual Core Intel® 945GM Solution

The slim PPC-37 series adopts the high performance Intel® 945GM chipset and Intel® dual core processor to enhance high speed processing capability. The fanless system with built-in Intel® N270 processor provides quiet and continuous operation without the possibility of fan failure.

	LCD Size	Platform	Expansion Slot	Fanless
PPC-3708G	6.5"	Intel® 945GME	1 x PCIe Mini	-
PPC-3708A		Intel® N270		Fanless
PPC-3710G	10.4"	Intel® 945GME		-
PPC-3710A		Intel® N270		Fanless
PPC-3712G	12.1"	Intel® 945GME		-
PPC-3712A		Intel® N270		Fanless

PPC-51 Series



Quad Core and DDR3
Intel® G41 Solution

Performance Oriented Multi-functional Panel PC

- LGA775 Performance Oriented to Endure High Task Loading
- Expandable Function through PCI/PCIe x1 Expansion Slot

Performance oriented, scalable dual-core to quad-core CPU and Intel® G41 chipset designed for extreme graphics and performance applications.

	LCD Size	Platform	Expansion Slot
PPC-5150A	15"	Intel® 945G	-1 x either PCI or PCIe x1 expansion slot -1 x PCIe Mini
PPC-5150A		Intel® G41	
PPC-5170A	17"	Intel® 945G	
PPC-5170A		Intel® G41	
PPC-5190A	19"	Intel® 945G	
PPC-5190A		Intel® G41	

PPC-5152-D525



Fiber LAN
Flat Bezel
Capture Card (optional)

Ultimate Expansion Slot Panel PC

- PCI, and PCIe and PCIe Mini Slot options
- Flat bezel design with IP 64 protection

PPC-5152-D525 is our most stylish PPC design ever. Not just a PPC with good looking exterior, it also has extremely rugged front bezel IP 64 protection. Furthermore, the most feasible PCI and PCIe expansion design is included in this powerful panel pc.

	LCD Size	Platform	Expansion Slot
PPC-5152-D525	15"	Intel® Atom™ D525	-Either 2 x PCI expansion or 1 x PCIe by 1 plus 1 x PCI expansion -1 x PCIe Mini

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Features for Heavy Industrial Needs

IEI's diverse line-up of industrial Panel PC, add new functions but no extra price, support ultra high brightness LED backlight TFT LCD, and supports green ErP power adapter.

Feature 1 Robust Mechanical Design

- All the PPC series are constructed with aluminum die-casting sealed front bezel and SECC rear cover. The whole housing is painted in silver gray painting for protection
- Anti-scratch
- Anti-corrosion
- Easily clean with cleanser



Feature 2 -10°C~50°C Extended Operating Temperature

- Rigorous product design quality, through 48 hours burning test
- Utilizing LED backlight TFT LCD (6.5"~12.1") allows the system to operate in low temperature environment.
- Metal casing is great for heat dissipation and can prevent casing transformation in high temperature environment



Feature 3 Flat Bezel Touch Screen

The flat-bezel touch screen panel PC helps prevent dust and water accumulation and save maintenance fee/ time in harsh operating environment.



Panel Size	15"
Model	PPC-5152-D525

Feature 4 Efficient Green System



A. Upgraded 6.5"~15" PPC TFT LCD to LED Backlighting

- Inverter-free PPCs increase system reliability and lower total product maintenance cost.
- Better for the environment: LEDs are mercury free
- 50000hrs long-life backlight: LEDs have a much longer life than a traditional CCFL backlight
- 20%~30% Less Power Consumption

Compact PPC-27 and PPC-37 series upgrade to have the white light-emitting diodes (LEDs) TFT LCD, which consume less power, and hence reduced the system's overall power requirement by 20%~30% compared to conventional cold cathode fluorescent lamp (CCFL) systems.

Model	PPC-2706GS-R10	PPC-2706GS-R20	PPC-2710GS-R10	PPC-2710GS-R20	PPC-2712GS-R10	PPC-2712GS-R20
Brightness	500 nits	800 nits	400 nits	450 nits	450 nits	500 nits
System Power Consumption (W)	13.8W	20W	20W	15W	27.6W	21W

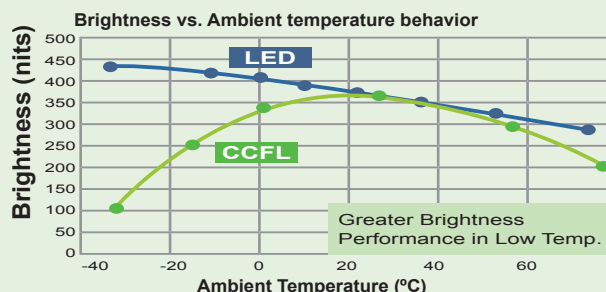
60% Brightness Increased (between PPC-2706GS-R10 and PPC-2706GS-R20)

Only 40% Power Consumption Increased (between PPC-2706GS-R10 and PPC-2710GS-R10)

25% Power Saving (between PPC-2710GS-R10 and PPC-2710GS-R20)

24% Power Saving (between PPC-2712GS-R10 and PPC-2712GS-R20)

- LED TFT LCD ensures brightness and life time performance under low temperature operation



B. Power Adapter Meets ErP Efficiency Criteria (ErP means Energy Related Products)

The new IEI power adapters included with the PPC-27 and PPC-37 R20 version comply with the ErP 2009/125/EC directive, where the power consumption of a whole system in either standby or off mode must be under 1W.



Organization	Region	Mandatory/Voluntary	Maximum Energy Consumption in Active Mode		Maximum Energy Consumption in No-Load Mode	
			0 to < 36W	36 to ≤ 250W	0 to < 50W	50 to ≤ 250W
ErP (Energy-related Product) European Commission	Europe	Mandatory	0.08 x Ln (PO) + 0.585	87%	0.3W	0.5W

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Automation Panel Solutions

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RISC-based Solutions

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Optional Peripherals

Feature 4 Great Readability with High Brightness and Better Contrast

For industrial applications, higher luminance is indispensable. Our PPCs provide high brightness that can easily adapt to indoor, outdoor or high ambient lighting conditions. The 6.5" TFT LCD of PPC-2706G adds extra low reflection coating on the surface to reduce the sunlight reflected from the surface of the panel, increase contrast ratio and image readability even when used outdoor.

6.5"~15" TFT LCD with Brighter and More Vivid Image	
<ul style="list-style-type: none"> 6.5"VGA (640 x 480) 500 nits 450:1 140° (H) /120° (V) -10°C to 70°C Operating Temp. 	<p>6.5"</p> <ul style="list-style-type: none"> 6.5"VGA (640 x 480) 800 nits 600:1 160° (H) /140° (V) -30°C to 80°C Operating Temp.
<ul style="list-style-type: none"> 8.4"SVGA (800 x 600) 400 nits 400:1 120° (H) /100° (V) -20°C to 70°C Operating Temp. 	<p>8.4"</p> <ul style="list-style-type: none"> 8.4"SVGA (800 x 600) 450 nits 600:1 160° (H) /140° (V) -30°C to 85°C Operating Temp.
<ul style="list-style-type: none"> 10.4" SVGA (800 x 600) 400 nits 500:1 120° (H) /100° (V) -20°C to 70°C Operating Temp. 	<p>10.4"</p> <ul style="list-style-type: none"> 10.4" SVGA (800 x 600) 400 nits 700:1 160° (H) /140° (V) -30°C to 85°C Operating Temp.
<ul style="list-style-type: none"> 12.1" XGA (1024x768) 450 nits 700:1 160° (H) /160° (V) -20°C to 70°C Operating Temp. 	<p>12.1"</p> <ul style="list-style-type: none"> 12.1" XGA (1024x768) 500 nits 700:1 160° (H) /160° (V) -30°C to 80°C Operating Temp.
<ul style="list-style-type: none"> 15" XGA (1024x768) 350 nits 700:1 125° (H) / 140° (V) -10°C to 70°C Operating Temp. 	<p>New 15"</p> <ul style="list-style-type: none"> 15" XGA (1024x768)* 400 nits 500:1 160° (H) / 140° (V) -20°C to 50°C Operating Temp.



* 15" LED Panel only for PPC-5152-D525

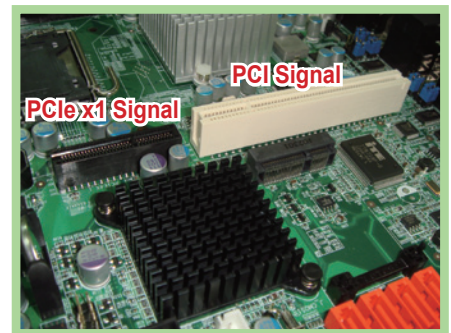
Feature 5 Versatile Expansion Interface

The PPC series has various kinds of expansion interfaces which allow you to connect additional circuit or expansion boards to the system via IEI riser card. These expansion options provide flexible function enhancement and simplify system integration.

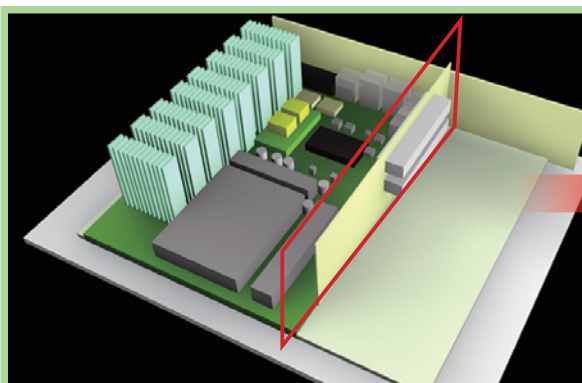
A. PCI and PCIe x1 Signal Expansion Slot (For PPC-5152-D525 only)

- Capture Card
- Data Acquisition & Control Card
- Communication Card
- Motion Control Card
- CAN bus/Profi-Bus

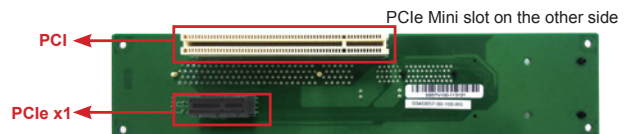
PCIe x1 and PCI Signal on Board



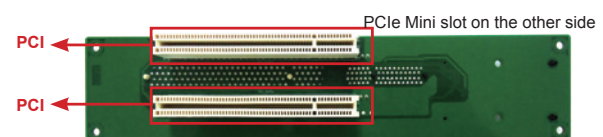
B. Two PCI/ One PCI+ One PCIe x1 Signal Modular Expansion Slot



1. One PCI and One PCIe x1 slot



2. Two PCI slots



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Optional Peripherals

Feature 6 IP 65 Compliant Aluminum Front Panel for Tough Working Environments

Complete sealed front aluminum panel has the ability to withstand water jet pressure test for harsh environment applications. IEI waterproof and dustproof laboratory were found facilities, equipment and personnel needed to conduct the waterproof tests and fully witnessed by UL International. All of the industrial Panel PC products designed to be rugged, ideal for any industrial environment where dust and water is encountered.



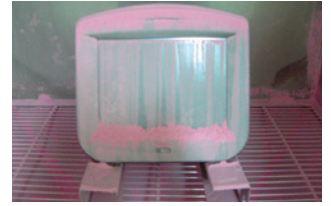
Texture Manufacturing Control Panel



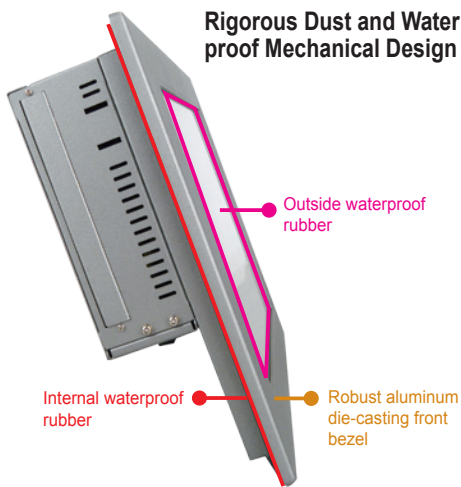
Water Treatment Plant



Water Resistance-IPx5



Dust Resistance-IP6x



IP Code Table

The IP Code (International Protection Rating) consists of the letters IP followed by two digits.

Solids		Liquids	
First Numerical		Second Numerical	
No Protection	0	0	No Protection
Objects Greater than 50mm	1	1	Vertically Dripping Water
Objects Greater than 12mm	2	2	75o-90o Sprayed water
Objects Greater than 2.5mm	3	3	30o-90o Sprayed water
Objects Greater than 1.0mm	4	4	Water sprayed-low pressure
Dust-Protected	5	5	Water jets-low pressure
Dust-Tight	6	6	Water jets-high pressure
		7	Temporary immersion
		8	Indefinite Immersion

IP 65 Compliant!

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IEI Mobile Solutions

Feature 7 Design for Reliability

Anti-shock Protection

The anti-shock design enhances hard drive reliability and protects hard disks from external shocks and vibrations.



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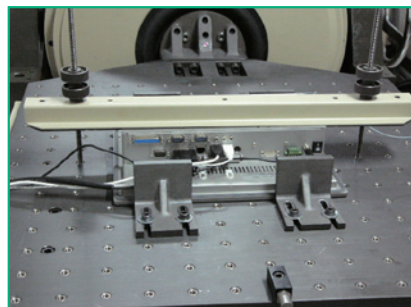
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RISC-based Solutions

Anti-vibration protection

MIL-STD-810F 514.5C-1 Vibration Testing Procedures (Operating Random Vibration Mode)

- a) Axes: 3 axes / Vertical / Transverse / Longitudinal.
- b) 10-500 Hz, 60min/axis.
- c) Equivalent to Z:1.04 Grms X:0.204 Grms Y:0.74 Grms
IEC68-2-27 Shock Testing Procedures (Operating Shock Half-Sine Wave Shock)
3G: 11ms: 3 shocks per axis: Vertical / Transverse / Longitudinal.
Non-Operation Shock Half-Sine Wave Shock
10G: 11ms: 3 shocks per axis: Vertical / Transverse / Longitudinal.



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Optional Peripherals



IEI Quick Mounting Technology

DIN Mount PPC

Din-Mount design is for the compact size LCD products. It allows the LCD product to be used in various environments.



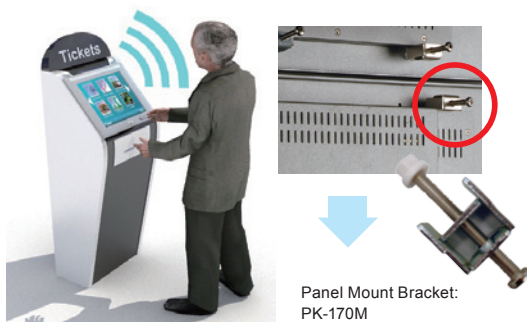
Wall Mount PPC

IEI quick wall mount kit allows an IEI LCD to be removed from and mounted on the wall easily. It makes the LCD product a quick installation and easy maintenance solution.



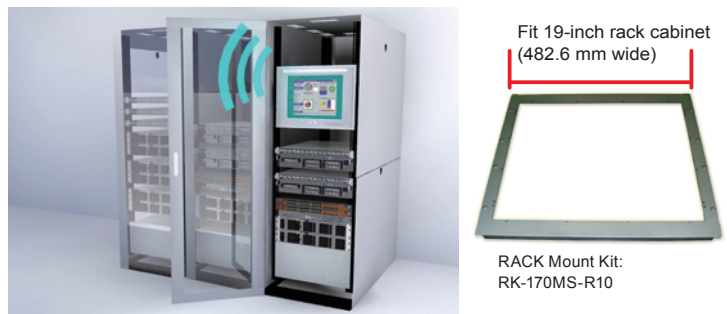
Panel Mount PPC

IEI panel mount allows customers to mount IEI LCD products on the panel kit with IP 65 waterproof protection.



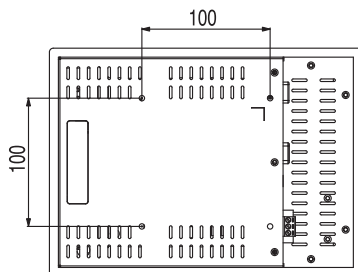
Rack Mount PPC

Rack-mountable equipment is mounted simply by bolting its front panel to the rack, or with a square-holed rack by clipping or some other variation on the theme.



VESA Mount PPC

The new IEI LCD family features an easy, quick, and solid mounting kit attached to the VESA mount adapter which is attached to the computer. IEI LCD products are ready to attach to any VESA compliant mounting solution that has a 100 mm x 100 mm attachment.



Optional Item List

LCD Size	6.5"	8.4"	10.4"	12.1"	15"	17"	19"
Panel Mount Kit	PK-65M	PK-84M	PK-104M		PK-170M		PK-190M
Wall Mount Kit	WK-065MS-R10				WK-190MS-R10		
Rack Mount Kit	RK-065MS-R10	RK-084MS-R10	RK-104MS-R10	RK-121MS-R10	RK-150MS-R10	RK-170MS-R10	RK-190MS-R10
Din Mount Kit	DK-84MS				N/A		
Stand	STAND-100-RS				STAND-210-R11		
Arm	ARM-11-RS		ARM-11-RS/ARM-31-RS		ARM-31-ARM-31-RS		

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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

PPC Series 6.5"~10.4" PPC Selection Guide



LCD Size		6.5"	8.4"			10.4"
Model		PPC-2706GS-LX800	PPC-2708GS-LX800	PPC-3708GS-945	PPC-3708A-N270	PPC-3710GS-945
Display	LCD Size	6.5 "	8.4 "	8.4 "	8.4 "	10.4 "
	Max Resolution	640(W) x 480(H)	800(W) x 600(H)	800(W) x 600(H)	800(W) x 600(H)	800(W) x 600(H)
	Brightness (cd/m ²)	800 Sunlight Readable!	450	450	450	400
	Contrast Ratio	600:1	600:1	600:1	600:1	700:1
	LCD Color	262K	262K	262K	262K	262K
	Pixel Pitch (mm) (HxV)	0.207(H) x 0.207(V)	0.213(H) x 0.213(V)	0.213(H) x 0.213(V)	0.213(H) x 0.213(V)	0.264(H) x 0.264(V)
	Viewing Angle (V/H)	140°/160°	140°/160°	140°/160°	140°/160°	140°/160°
	Backlight MTBF (hrs)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)
Motherboard	CPU	AMD Geode LX800 500MHz processor	AMD Geode LX800 500MHz processor	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB	Intel® Atom™ N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	AMD Geode LX800 + AMD CS5536	AMD Geode LX800 + AMD CS5536	Intel® 945GM + ICH7M	Intel® 945GSE + ICH7M	Intel® 945GM + ICH7M
	RAM	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB	1 x 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
I/O Ports and Switches	1 x RS-232	1 x RS-232	1 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232
	2 x USB Port	2 x USB Port	2 x USB Port	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)
	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
	2 x RJ-45 for 10/100Mbps LAN	2 x RJ-45 for 10/100Mbps LAN	2 x RJ-45 for 10/100Mbps LAN	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port
	Line-out	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in
	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface
	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack
				1 x Power Switch	1 x Power Switch	1 x Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock
	SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
	CD-ROM Driver Bay	N/A	N/A	N/A	N/A	N/A
Expansion Slot	N/A	N/A	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	
System Cooling	Fanless	Fanless	Active with Fan	Fanless	Active with Fan	
Environment	Operation Temperature	-10°C~50°C with CF or SSD -10°C~40°C with HDD	-10°C~50°C with CF or SSD -10°C~40°C with HDD	-10°C~50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C

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Optional Peripherals

PPC Series 10.4"~12.1" PPC Selection Guide



LCD Size		10.4"		12.1"			
Model		PPC-3710A-N270	PPC-2710GS-LX800	PPC-3712GXS-945	PPC-3712A-N270	PPC-3712B-N270	PPC-2712GS-LX800
Display	LCD Size	10.4 "	10.4 "	12.1 "	12.1 "	12.1 "	12.1 "
	Max Resolution	800(W) x 600(H)	800(W) x 600(H)	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)
	Brightness (cd/m ²)	400	400	500	500	500	500
	Contrast Ratio	700:1	700:1	700:1	700:1	700:1	700:1
	LCD Color	262K	262K	262K	262K	262K	262K
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.3075(H) x 0.3075(V)	0.3075(H) x 0.3075(V)	0.3075(H) x 0.3075(V)	0.3075(H) x 0.3075(V)
	Viewing Angle (V/H)	140°/ 160°	140°/ 160°	160°/ 160°	160°/ 160°	160°/ 160°	160°/ 160°
	Backlight MTBF (hrs)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)
Motherboard	CPU	Intel® Atom™ process N270 1.6GHz CPU	AMD Geode LX800 500MHz processor	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB	Intel® Atom™ process N270 1.6GHz CPU	Intel® Atom™ process N270 1.6GHz CPU	AMD Geode LX800 500MHz processor
	Chipset	Intel® 945GSE + ICH7M	AMD Geode LX800 + AMD CS5536	Intel® 945GM + ICH7M	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	AMD Geode LX800 + AMD CS5536
	RAM	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB	1 x 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB
I/O Ports and Switches		2 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232
		1 x RS-232 (Alternative to RS-422/485)	2 x RJ-45 for 10/100Mbps LAN	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)	2 x RJ-45 for 10/100Mbps LAN
		2 x RJ-45 for LAN Port	2 x USB 2.0	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	4 x USB 2.0
		2 x USB 2.0	1 x VGA Port	2 x USB 2.0	2 x USB 2.0	4 x USB 2.0	1 x VGA Port
		1 x VGA Port	Line-out	1 x VGA Port	1 x VGA Port	1 x VGA Port	Line-out
		1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x PS/2 mouse and keyboard interface	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x PS/2 mouse and keyboard interface
		1 x PS/2 mouse and keyboard interface	1 x 12VDC input Power Jack	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface	1 x 12VDC input Power Jack
		1 x 12VDC input Power Jack	1 x Power Switch	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack	1 x Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" IDE HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" IDE HDD bay with anti-shock
	SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
	CD-ROM Driver Bay	N/A	N/A	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	N/A
Expansion Slot	1 x PCIe Mini card	1 x Mini PCI card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x Mini PCI card	
System Cooling	Fanless	Fanless	Active with Fan	Fanless	Fanless	Fanless	
Environment	Operation Temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C

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- 5 Optional Peripherals

PPC Series 15" PPC Selection Guide



LCD Size		15"				
Model		PPC-5150A/9455	PPC-5150A-G41	PPC-5152-D525	WIDS-515A/9455	WIDS-515A-G41
Display	LCD Size	15 "	15 "	15 "	15 "	15 "
	Max Resolution	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)
	Brightness (cd/m ²)	350	350	400	350	350
	Contrast Ratio	700 : 1	700 : 1	500 : 1	700 : 1	700 : 1
	LCD Color	16.2M	16.2M	16.2M	16.2M	16.2M
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.1095(H) x 0.1095(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)
	Viewing Angle (V/H)	125°/ 140°	125°/ 140°	160° / 140°	125o/ 140o	125o/ 140o
	Backlight MTBF (hrs)	50000	50000	50000	50000	50000
Motherboard	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support	Intel® Atom™ D525 1.8GHz dual core processor	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® ICH8M	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	Two 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	One 204-pin DDR3 SO-DIMM slot (system max.4GB)	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	Two 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches	4 x RS-232	4 x RS-232	4 x RS-232	2 x RS-232 (DB-9 connector)	4 x RS-232	4 x RS-232
	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232 or RS-422/485 (DB-9 connector)	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port
	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RS-422/485 (RJ-45 connector)	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0	2 x USB 2.0 connector	6 x USB 2.0 (2 waterproof USB in the front of the panel)	6 x USB 2.0 (2 waterproof USB in the front of the panel)
	1 x VGA Port	1 x VGA Port	1 x VGA Port	VGA port (DB-15 connector)	1 x VGA Port	1 x VGA Port
	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	2 x Audio jacks (Line-out, MIC)	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in
	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface	AT/ATX switch	1 x LPT	1 x LPT
	1 x Power Switch	1 x Power Switch	1 x Power Switch	2 x USB 3.0 connector	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface
	AT / ATX Switch	AT / ATX Switch	AT / ATX Switch	2 x Combo (SFP / RJ-45) Gigabit LAN	1 x Power Switch	1 x Power Switch
	1 x LPT	1 x LPT	1 x LPT	4-channel video / audio capture (optional)	AT / ATX Switch	AT / ATX Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	2.5" SATA HDD bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock
	SSD	CF Type II	CF Type II	CF Type II socket	CF Type II	CF Type II
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	N/A	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay
Expansion Slot		Either 1 x PCI or PCIe x1 expansion slot (optional)	Either 1 x PCI or PCIe x1 expansion slot (optional)	Two PCI slots or one PCI slot plus one PCIe x1 slot	Either 1 x PCI or PCIe x1 expansion slot (optional)	Either 1 x PCI or PCIe x1 expansion slot (optional)
		1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card for wireless module (802.11 b/g/n)	1 x PCIe Mini card for wireless module (802.11 b/g/n)
System Cooling		Active with Fan	Active with Fan	Fanless	Active with Fan	Active with Fan
Environment	Operation Temperature	-10°C~50°C	-10°C~50°C	-20°C ~ 50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C ~ 70°C	-20°C~60°C	-20°C~60°C

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmart Medical Solutions

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Optional Peripherals

PPC Series 17"~19" PPC Selection Guide



LCD Size		17"				19"	
Model		PPC-5170A/9455	PPC-5170A-G41	WIDS-517A/9455	WIDS-517A-G41	PPC-5190A/9455	PPC-5190A-G41
Display	LCD Size	17 "	17 "	17 "	17 "	19 "	19 "
	Max Resolution	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)
	Brightness (cd/m ²)	300	380	380	380	300	450
	Contrast Ratio	800 : 1	1000 : 1	1000 : 1	1000 : 1	700 : 1	1000 : 1
	LCD Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)
	Viewing Angle (V/H)	160°/ 160°	160°/170°	160°/170°	160°/170°	160°/ 170°	160°/ 170°
Backlight MTBF (hrs)	50000	50000	50000	50000	50000	50000	
Motherboard	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches		4 x RS-232	4 x RS-232	4 x RS-232	4 x RS-232	4 x RS-232	4 x RS-232
		1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port
		2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
		4 x USB 2.0	4 x USB 2.0	6 x USB 2.0 (2 waterproof USB in the front of the panel)	6 x USB 2.0 (2 waterproof USB in the front of the panel)	6 x USB 2.0	6 x USB 2.0
		1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port
		1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in
		2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface	1 x LPT	1 x LPT	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface
		1 x Power Switch	1 x Power Switch	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface	1 x Power Switch	1 x Power Switch
		AT / ATX Switch	AT / ATX Switch	1 x Power Switch	1 x Power Switch	AT / ATX Switch	AT / ATX Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock
	SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay
Expansion Slot		Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI or PCIe x 1 expansion slot (optional)
		1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card for wireless module (802.11 b/g/n)	1 x PCIe Mini card for wireless module (802.11 b/g/n)	1 x PCIe Mini card	1 x PCIe Mini card
System Cooling		Active with Fan	Active with Fan	452 x 356 x 115	452 x 356 x 115	Active with Fan	Active with Fan
Environment	Operation Temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C

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- 5 Optional Peripherals

6.5" Industrial Panel PC

PPC-2706GS-LX800

AMD Geode LX800 500MHz Processor

Fanless

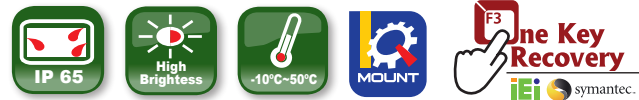
800nits Sunlight Readable



Features

1. 6.5" 800nits high brightness TFT LCD with LED backlight
2. AMD Geode LX800 500MHz processor
3. Fanless system
4. 14W Ultra low power consumption
5. Dual 10/100Mbps Ethernet
6. Internal 2.5" HDD and CF slot as a storage device
7. Robust aluminum front bezel and metal casing
8. IP 65 compliant front panel
9. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity suggested)

Specifications



Model		PPC-2706GS-LX800
Display	LCD Size	6.5 "
	Max Resolution	640(W) x 480(H)
	Brightness (cd/m ²)	800
	Contrast Ratio	600:1
	LCD Color	262K
	Pixel Pitch (mm) (HxV)	0.207(H) x 0.207(V)
	Viewing Angle (V/H)	140° / 160°
	Backlight MTBF (hrs)	50000 (LED Backlight)
Motherboard	SBC	WAFER-LX-800
	CPU	AMD Geode LX800 500MHz processor
	Chipset	AMD Geode LX800 + AMD CS5536
	RAM	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB
I/O Ports and Switches		1 x RS-232 2 x USB Port 1 x PS/2 mouse and keyboard interface 2 x RJ-45 for 10/100Mbps LAN 1 x VGA Port 1 x Line-out 1 x 12VDC input Power Jack 1 x Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay
	SSD	CF Type II
Physical	Construction Front Panel	Aluminum die-casting
	Chassis Construction	Heavy-duty steel (SECC)
	Mounting	Wall, Rack, Stand and Arm (VESA 100mm x 100mm)
	Front Panel Color	Silver (Pantone 8001C)
	Dimensions (WxHxD) (mm)	183 x 143 x 62.6
Cut Out Dimensions (WxH) (mm)		180 x 140
System Cooling		Fanless
Environment	Net/Gross Weight	1.5 Kg / 3.4 Kg
	Operation Temperature	-10°C ~ 50°C with CF or SSD -10°C ~ 40°C with HDD
	Storage Temperature	-20°C ~ 60°C
	Relative Humidity	5%~95% @ 60°C, non-condensing
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak "
	Shock	10G acceleration part to part (11ms)
Touch Screen		Resistive Type 4-Wire with RS-232 interface
Power	Power Adapter	P/N: 63040-010060-040-RS -60W Power Adapter -Input: 90VAC~264VAC, 50/60Hz -Output: 12VDC
	Power Consumption	14W

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

800 nits Super High Brightness PPC Improves Readability

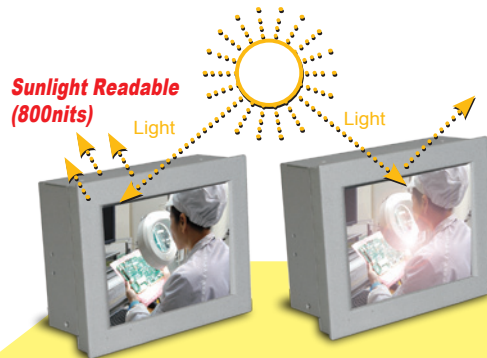
The PPC-2706G has a super high brightness TFT LCD with LED backlighting and 800 cd/m² with a 600:1 contrast ratio. This high brightness Panel PC provides an excellent image quality under tough ambient light conditions or outdoor sunlight.

TFT LCD with AR and AG enhancement:

- Anti-reflective minimizes mirror image and maximizes transmittance
- Anti-glare scatters light directed on the surface and softens the image of direct light sources visible in the reflection of the viewing area

Compact Lightweight Design

The PPC-2706GS is a powerful and compact industrial panel PC ideally designed for device operational environments with space limitations such as HMI or thin clients.



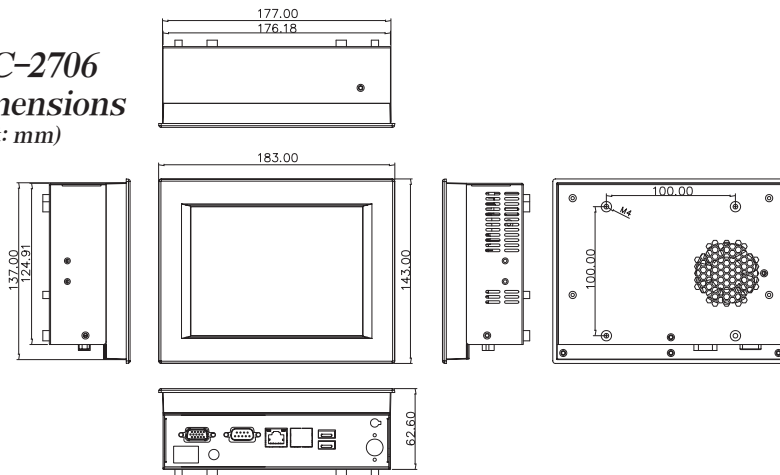
PPC-2706G-R20

Brightness: 800 nits
 Contrast Ratio: 600:1
 Viewing Angle (V/H): 140°/160°
 TFT LCD Surface Treatment: AR+AG

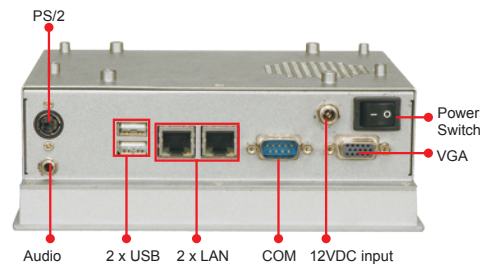
PPC-2706G-R10

Brightness: 500 nits
 Contrast Ratio: 450:1
 Viewing Angle (V/H): 120°/140°
 TFT LCD Surface Treatment: AG

PPC-2706 Dimensions (Unit: mm)



Fully Integrated I/O



Locking power jack for a secure attachment to the system

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-065MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS

Options

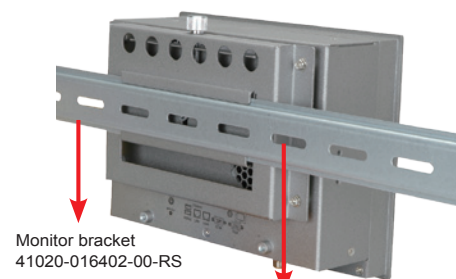
Item	Part No.	Description
HDD IDE Cable	32200-074700-RS	200MM, IDE 44-pin

Ordering Information

Part No.	Description
PPC-2706GS-LX/R/256M-R20	6.5" 800 cd/m ² VGA TFT Fanless Panel PC with WAFER-LX-800, Silver, Touch screen, 256MB DDR RAM, R20, RoHS

Packing List

Item	Part No.	Description
Fan Module	19FRDL5010B5-000001-RS	+5V, 50*50*10MM (Please install the fan under -10°C~50°C with HDD operating environment)
Power Cord	32702-000200-100-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Power Adapter	63000-FSP060DBAB1552-RS	60W, 90V~264V, 12V@5A
PS/2 Cable	32006-000300-100-RS	
Panel Mounting Kit	19Z00-000040-RS	
Monitor Bracket	41020-016402-00-RS	
Din Mount Kit	19Z00-000025-RS	
Touch Pen		
User Manual & Driver CD	IEI-7B000-000519-RS	FOR PPC-27xxG-LX SERIES
IEI One Key Recovery CD	IEI-7B000-000478-RS	



Monitor bracket 41020-016402-00-RS

Din Mount Bracket: 19Z00-000025-RS

- 1 IEI Mobile Solutions
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- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

8.4" Industrial Panel PC

PPC-2708GS-LX800

AMD Geode LX800 500MHz Processor



PPC-3708A-N270

Intel® Atom™ N270 Processor



PPC-3708GS-945

Intel® Core™2 Duo Processor with Intel® 945GME Platform



Specifications

Features

1. 8.4" 450 nits high brightness TFT LCD with LED backlight
2. Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. One internal 2.5" SATA HDD and CF slot
4. Robust aluminum front bezel and metal casing
5. IP 65 compliant front panel
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity suggested)



1
IEI Mobile Solutions

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Automation Panel Solutions

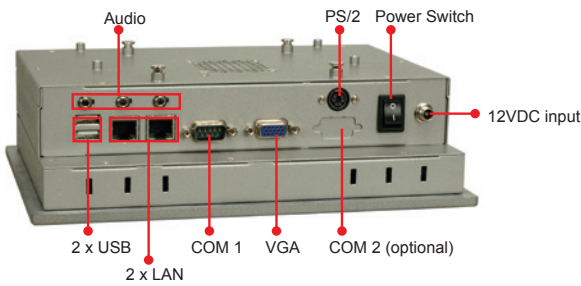
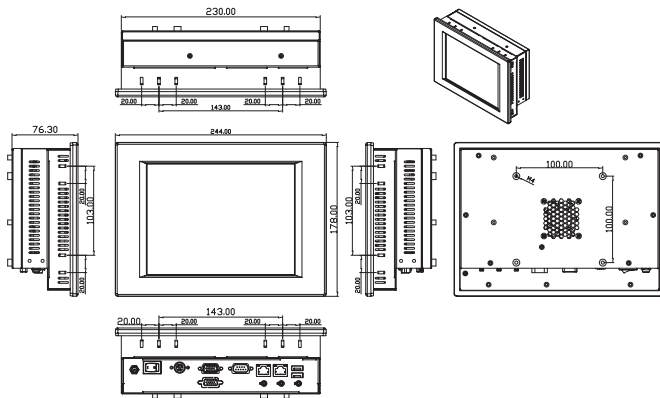
3
RISC-based Solutions

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PACSmate Medical Solutions

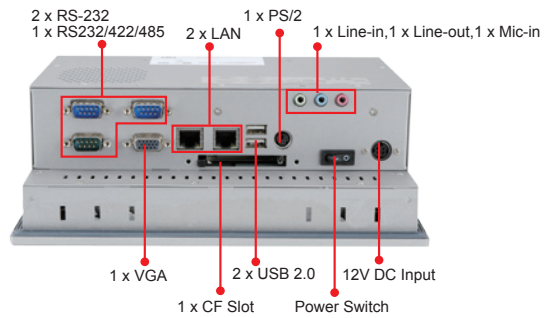
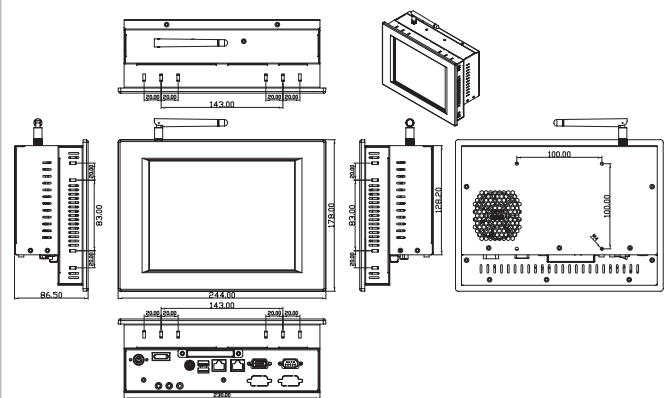
5
Optional Peripherals

Model		PPC-2708GS-LX800	PPC-3708A-N270	PPC-3708GS-945
Display	LCD Size	8.4 "		
	Max Resolution	800(W) x 600(H)		
	Brightness (cd/m ²)	450		
	Contrast Ratio	600:1		
	LCD Color	262K		
	Pixel Pitch (mm) (HxV)	0.213(H) x 0.213(V)		
	Viewing Angle (V/H)	140°/160°		
	Backlight MTBF (hrs)	50000 (LED Backlight)		
Motherboard	SBC	WAFER-LX-800	NANO-945GSE-N270	NANO-9452
	CPU	AMD Geode LX800 500MHz processor	Intel® Atom™ process N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M
	RAM	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
I/O Ports and Switches		1 x RS-232 2 x RJ-45 for 10/100Mbps LAN 2 x USB Port 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch
	Drive Bay	HDD Driver Bay SSD	1 x 2.5" SATA HDD Bay CF Type II	
Expansion Slot		N/A	1 x PCIe Mini card	1 x PCIe Mini card
	Construction Front Panel	Aluminum Die-casting		
Physical	Chassis Construction	Heavy-duty Steel (SECC)		
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
	Front Panel Color	Silver (Pantone 8001C)		
	Dimensions (WxHxD) (mm)	244 x 178 x 67	244 x 178 x 80.2	244 x 178 x 80.2
	Cut Out Dimensions (WxH) (mm)	233 x 167	233 x 167	233 x 167
	Net /Gross Weight	2.2 Kg / 4.4 Kg	2.2 Kg / 4.4 Kg	2.2 Kg / 4.4 Kg
System Cooling		Fanless	Fanless	Active with Fan
	Operation Temperature	-10°C ~ 50°C with CF or SSD -10°C ~ 40°C with HDD	-10°C~50°C	-10°C~50°C
Environment	Storage Temperature	-20°C~60°C		
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock	10G acceleration part to part (11ms)		
	Touch Screen	Resistive Type 4-Wire with RS-232 interface		
Power	Power Adapter	P/N: 63000-FSP060DBAB1552-RS 60W Power Adapter	P/N: 63000-FSP060DBAB1554-RS 60W Power Adapter	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter
	Power Consumption	Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	Input: 90VAC~264VAC,50/60Hz Output: 12VDC

PPC-2708GS
Dimensions (Unit: mm)



PPC-3708A / PPC-3708GS
Dimensions (Unit: mm)



Versatile Mounting Method



Wall Mount



Stand



Panel Mount



Rack Mount



Packing List

Item	Part No.	Description
Fan Module	19FRDL5010B5-000001-RS	+5V, 50*50*10MM, FOR PPC-2708GS-LX800 (Please install the fan under -10°C~50°C with HDD operating environment)
Screw Kit	19600-000205-RS	
2.5" SATA HDD Installation Kit	19A00-000023-00-RS	FOR PPC-2708GS-LX800
Power Cord	63040-010060-040-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR (10A 250V)
Power Adapter	63000-FSP060DBAB1552-RS	60W, 90VAC~264VAC for PPC-2708GS-LX800
	63040-010060-050-RS	84W, 90VAC~264VAC for PPC-3708GS-945
	63000-FSP060DBAB1554-RS	60W, 90VAC~264VAC , DIN 4 PIN for PPC-3708A-N270
PS/2 Cable	32006-000300-100-RS	1 x MINI DIN 6PIN MALE; 2 x MINI DIN 6PIN FEMALE
Panel Mounting Kit	19Z00-000026-RS	
Wall Mounting Kit	41014-057602-00-RS	ULTRA SET PLATE
	41020-016102-00-RS	WALL MOUNT BRACKET
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Screen Driver CD / Touch Pen		
User Manual & Driver CD	IEI-7B000-000519-RS	FOR PPC-27xxG-LX SERIES
	IEI-7B000-000520-RS	FOR PPC-37xxG-945, PPC-37xxA-N270 SERIES

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-084MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS

Options

Item	Part No.	Description
RS-422/485 Cable	32200-075202-RS	(A) D-SUB 9PIN MALE (B) DU PONT 2*7P P=2.0 FEMALE
HDD IDE Cable	32221-000200-100-RS	100MM, IDE 44-pin

Ordering Information

Part No.	Description	
AMD LX800	PPC-2708GS-LX/R/256M-R20	8.4" 450 cd/m ² SVGA Fanless Panel PC with WAFER-LX-800, Silver, Touch screen, 256MB DDR RAM, R20, RoHS
	PPC-2708GS-LX/R/512M-R20	8.4" 450 cd/m ² SVGA TFT Panel PC with WAFER-LX-800 Silver color and Touch screen,512MB DDR RAM, R20, RoHS
Intel® Atom™ N270	PPC-3708A-N270/R/1G-R30	8.4" 450 cd/m ² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor,1GB DDR2 RAM, touch screen,12VDC iput. R30, RoHS
Intel® 945GME	PPC-3708GS-945-C4/R/1G-R30	8.4" 450 cd/m ² SVGA TFT Panel PC with NANO-9452,C-M 1.86GHz, Silver color,T/S,1GB DDR2 RAM,R30,RoHS
	PPC-3708GS-945-T5/R/1G-R30	8.4" 450 cd/m ² SVGA TFT Panel PC with NANO-9452, Intel® Core™ Duo 1.66GHz T5500, Silver color,T/S,1GB DDR2 RAM,R30,RoHS

10.4" Industrial Panel PC

PPC-2710GS-LX800

AMD Geode LX800 500MHz Processor



PPC-3710A-N270

Intel® Atom™ N270 Processor



PPC-3710GS-945

Intel® Core™2 Duo Processor with Intel® 945GM Platform



Features

1. 10.4" 400 nits high brightness TFT LCD with LED backlight
2. Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. One internal 2.5" SATA HDD and CF slot
4. Robust aluminum front bezel and metal casing compliant front panel
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model		PPC-2710GS-LX800	PPC-3710A-N270	PPC-3710GS-945
Display	LCD Size	10.4 "		
	Max Resolution	800(W) x 600(H)		
	Brightness (cd/m ²)	400		
	Contrast Ratio	700:1		
	LCD Color	262K		
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)		
	Viewing Angle (V/H)	140°/160°		
	Backlight MTBF (hrs)	50000 (LED Backlight)		
Motherboard	SBC	AFLMB-LX-800	NANO-945GSE-N270	NANO-9452
	CPU	AMD Geode LX800 500MHz processor	Intel® Atom™ N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M
	RAM	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
I/O Ports and Switches		2 x RS-232 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x VGA Port 1 x Line-out 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch 1 x Reset Button	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5" IDE HDD Bay	1 x 2.5" SATA HDD Bay	
	SSD	CF Type II		
Expansion Slot		1 x Mini PCI card	1 x PCIe Mini card	1 x PCIe Mini card
		Aluminum Die-casting		
Physical	Construction Front Panel	Heavy-duty Steel (SECC)		
	Chassis Construction	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
	Mounting	Silver (Pantone 8001C)		
	Front Panel Color	311.5 x 242 x 57		
	Dimensions (WxHxD) (mm)	311.5 x 242 x 57	311.5 x 242 x 77.8	311.5 x 242 x 77.8
	Cut Out Dimensions (WxH) (mm)	291 x 221	291 x 221	291 x 221
Net /Gross Weight	2.8 Kg / 5.5 Kg	3.4 Kg / 5.8 Kg	3.4 Kg / 5.8 Kg	
System Cooling		Fanless	Fanless	Active with Fan
Environment	Operation Temperature	-10°C~50°C		
	Storage Temperature	-20°C~60°C		
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock	10G acceleration part to part (11ms)		
Touch Screen		Resistive Type 5-Wire with RS-232 interface		
Power	Power Adapter	P/N: 663000-FSP050DBAB1405-RS 50W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63040-010060-050-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter Input: 90VAC~264VAC,50/60Hz Output: 12VDC

1
IEI Mobile Solutions

2
Automation Panel Solutions

3
RISC-based Solutions

4
PACSmate Medical Solutions

5
Optional Peripherals

802.11 b/g/n Wireless LAN Module

The PPC 37 series is equipped with a high speed wireless module that enables larger data transmission in real time. The Wireless LAN facilitates applications that require data transmission over large distances, such as in a large warehouse. (By Project Base)

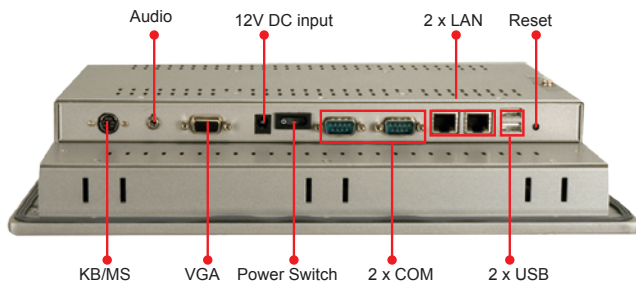
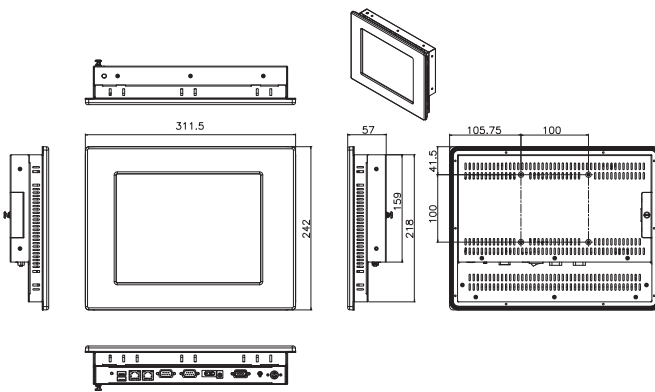


Fanless System

The PPC-2710G and PPC-3710A are designed with a low power consumption platform featuring an Intel® ATOM™ N270 and AMD LX-800 platform. The fanless system generates less heat while maintaining above-average performance. A fanless design eliminates the possibility of fan failure and extends the operation life of the device.

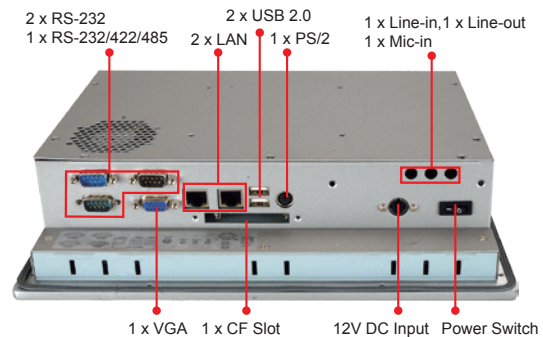
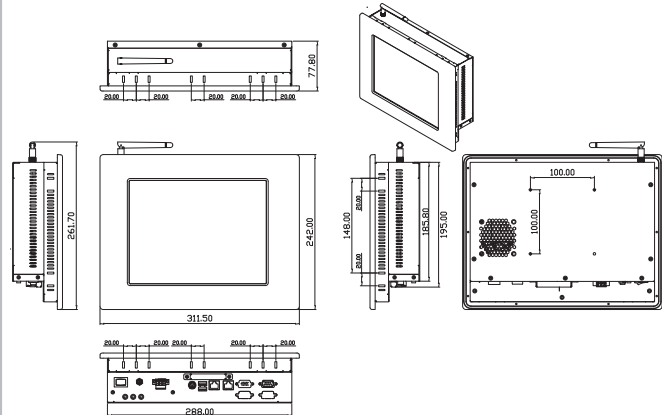
PPC-2710GS

Dimensions (Unit: mm)



PPC-3710A / PPC-3710GS

Dimensions (Unit: mm)



Packing List

Item	Part No.	Description
Screw Kit	19600-000205-RS	
Power Cord	32702-000200-100-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Power Adapter	63040-010060-050-RS	50W, 90VAC~264VAC for PPC-3710A-N270, PPC-2710GS-LX
	63000-FSP060DBAB1554-RS	60W, 90VAC~264VAC for PPC-3710GS-945 BGA Type
	63000-FSP084DMBA1308-RS	84W, 90VAC~264VAC for PPC-3710GS-945 Socket Type
PS/2 Cable	32006-000300-100-RS	1 x MINI DIN 6PIN MALE; 2 x MINI DIN 6PIN FEMALE
Panel Mounting Kit	19Z00-000026-RS	
Wall Mounting Kit	41014-057602-00-RS	ULTRA SET PLATE
	41020-016102-00-RS	WALL MOUNT BRACKET
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Screen Driver CD / Touch Pen		
User Manual & Driver CD	IEI-7B000-000519-RS	FOR PPC-27xxG-LX SERIES
	IEI-7B000-000520-RS	FOR PPC-37xxG-945, PPC-37xxA-N270 SERIES

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-104MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS

Options

Item	Part No.	Description
RS-422/485 Cable	32200-075202-RS	(A) D-SUB 9PIN MALE (B) DU PONT 2*7P P=2.0 FEMALE

Ordering Information

Part No.	Description
AMD LX800	PPC-2710GS-LX/R/256M-R20
Intel® Atom™ N270	PPC-3710A-N270/R/1G-R30
Intel® 945GME	PPC-3710GS-945-C4/R/1G-R30
	PPC-3710GS-945-T5/R/1G-R30

12.1" Industrial Panel PC

PPC-2712GS-LX800

AMD Geode LX800 500MHz Processor



PPC-3712A/B-N270

Intel® Atom™ N270 Processor



PPC-3712GXS-945

Intel® Core™2 Duo Processor with Intel® 945GM Platform



Features

1. 12.1" 500 nits high brightness TFT LCD with LED backlight
2. Dual Gigabit Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. Optional 802.11 b/g wireless kit
4. One slim type CD-ROM drive bay
5. One internal 2.5" SATA HDD and CF slot
6. Robust aluminum front bezel and metal casing
7. IP 65 compliant front panel

Specifications



Model		PPC-2712GS-LX800	PPC-3712A-N270	PPC-3712B-N270	PPC-3712GXS-945
Display	LCD Size	12.1"			
	Max Resolution	1024(W) x 768(H)			
	Brightness (cd/m ²)	500			
	Contrast Ratio	700:1			
	LCD Color	262K			
	Pixel Pitch (mm) (HxV)	0.3075(H) x 0.3075(V)			
	Viewing Angle (V/H)	160°/160°			
	Backlight MTBF (hrs)	50000 (LED Backlight)			
Motherboard	SBC	AFLMB-LX-800	NANO-945GSE-N270	NANO-945GSE-N270	NANO-9452
	CPU	AMD Geode LX800 500MHz processor	Intel® Atom™ N270 1.6GHz CPU	Intel® Atom™ N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M
	RAM	1 x 200-pin SO-DIMM socket, supporting DDR 333/400MHz modules for up to 1GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
I/O Ports and Switches		2 x RS-232 2 x RJ-45 for 10/100Mbps LAN 4 x USB 2.0 1 x VGA Port Line-out 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch 1 x Reset Button	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 4 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch
	HDD Driver Bay	1 x 2.5" IDE HDD Bay		1 x 2.5" SATA HDD Bay	
Drive Bay	SSD	CF Type II			
	CD-ROM Driver Bay	N/A	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay
Expansion Slot	1 x Mini PCI card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	
Physical	Construction Front Panel	Aluminum Die-casting			
	Chassis Construction	Heavy-duty Steel (SECC)			
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm			
	Front Panel Color	Silver (Pantone 8001C)			
	Dimensions (WxHxD) (mm)	340 x 260 x 62	340 x 277 x 73.4	340 x 260 x 74.8	340 x 277 x 73.4
	Cut Out Dimensions (WxH) (mm)	313 x 233	313 x 233	313 x 233	313 x 233
Net/Gross Weight	2.8 Kg / 5.7 Kg	6 Kg / 8 Kg	6 Kg / 8 Kg	6 Kg / 8 Kg	
System Cooling	Fanless	Fanless	Fanless	Active with Fan	
Environment	Operation Temperature	-10°C~50°C			
	Storage Temperature	-20°C~60°C			
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak			
	Shock	10G acceleration part to part (11ms)			
Touch Screen	Resistive Type 5-Wire with RS-232 interface				
Power Supply	AC Input	P/N: 663000-FSP050DBAB1405-RS 50W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63040-010060-050-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: ACE-890A-RS 86W Power Supply Input: 90VAC ~ 264VAC Output: 12VDC	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
	DC Input	-	-	P/N: ACE-709TX-RS 90W Power Supply Input: 36VDC ~ 72VDC Output: 12VDC	-

1
IEI Mobile Solutions

2
Automation Panel Solutions

3
RISC-based Solutions

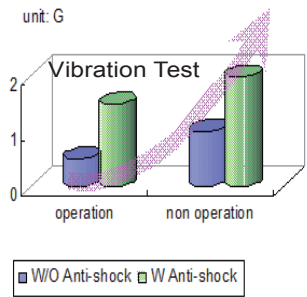
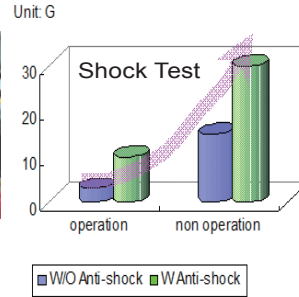
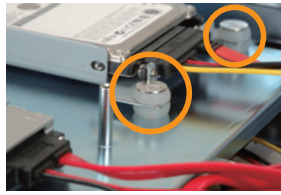
4
PACSmart Medical Solutions

5
Optional Peripherals

2.5" SATA Hard Drive with anti-vibration protection

Anti-Shock Protection

All new anti-shock design enhances protection performance of hard drives dramatically in terms of shock and vibration tests.



High Performance & Compact Size



High performance and compact size allow users to set up the PPC-3712GXS in a wide range of applications



Dual Display



SATA Transmission



High Performance

PPC-3712BA Supports More Features:

Built-in 85~264 V AC power supply means no need for an external power adapter



PPC-3712BA-N270/890/
R/1G-R20

ACE-890A
86 W AC-DC Open Frame AT Power Supply



No External Power Adapter!



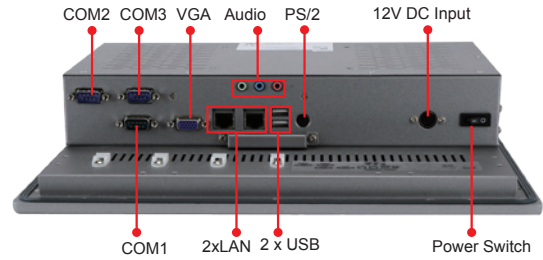
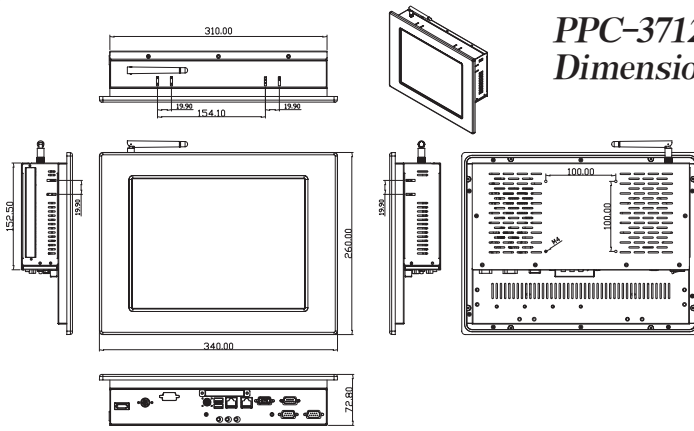
Input Type	85 ~ 264 VAC Full Range		
Output Voltage	+5 V	+12 V	-12V
ACE-890A	10A	2.5 A	0.5A
Efficiency	70%		
Temperature	Operating : 0 °C~ 50°C, Storage : -20 ~ 85°C		
MTBF (hrs)	268,000		

Suggested Cut out size

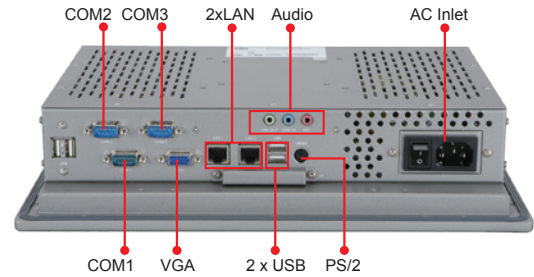
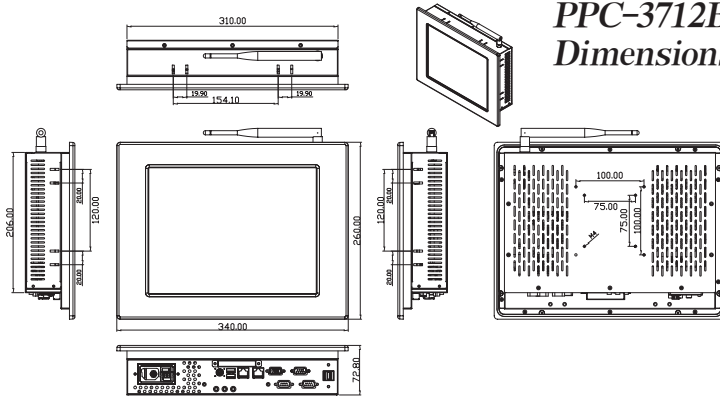
PPC-2712GS Dimensions (Unit: mm)

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

PPC-3712A/PPC-3712GXS-945 Dimensions (Unit: mm)

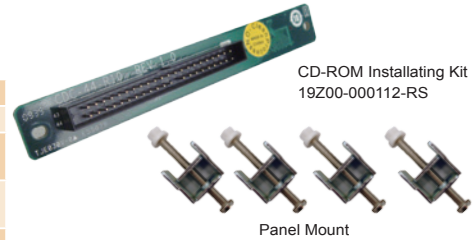


PPC-3712B Dimensions (Unit: mm)



Packing List

Item	Part No.	Description
Screw Kit	19600-000207-RS	
SATA CD-ROM Cable	32801-006300-100-RS	SATA 7+6P FEMALE 180°;SATA 7P FEMALE 90°+LOCK;DU PONT 2*4P P=2.54 FEMALE
Power Cord	32702-000200-100-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Power Adapter	63040-010060-050-RS	50W, 90VAC~264VAC for PPC-2712G
	63000-FSP060DBAB1554-RS	60W, 90VAC~264VAC for PPC-3712A
	63000-FSP084DMBA1308-RS	84W, 90VAC~264VAC for PPC-3712G
PS/2 Cable	32006-000300-100-RS	1 x MINI DIN 6PIN MALE; 2 x MINI DIN 6PIN FEMALE
Panel Mounting Kit	19Z00-000024-RS	
Wall Mounting Kit	41014-057602-00-RS	ULTRA SET PLATE
	41020-016102-00-RS	WALL MOUNT BRACKET
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Screen Driver CD / Touch Pen		
User Manual & Driver CD	IEI-7B000-000519-RS	FOR PPC-27xxG-LX SERIES
	IEI-7B000-000520-RS	FOR PPC-37xxG-945/N270 SERIES



IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-121MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS

Options

Item	Part No.	Description
RS-422/485 Cable	32200-075202-RS	(A) D-SUB 9PIN MALE (B) DU PONT 2*7P P=2.0 FEMALE
IDE CD-ROM Installing Kit	19Z00-000112-RS	50-pin CD ROM connector to 44-pin IDE connector transfer board
HDD IDE Cable	32200-000037-RS	250MM, IDE 44-pin

Ordering Information

Part No.	Description
AMD LX800	PPC-2712GS-LX/R/256M-R20 12.1" 500 cd/m ² XGA fanless panel PC with AFLMB-LX-800, Silver Color & Touch Screen, 256MB DDR RAM, R20, RoHS
Intel® Atom™ N270	AC Power Adapter PPC-3712A-N270/R/1G-R30 12.1" 500 cd/m ² XGA fanless panel PC, Intel® Atom™ N270 1.6GHz/ 512KB, 1GB DDR2, Res T/S, Silver Color, R30, RoHS
	AC Power Supply Built-in PPC-3712BA-N270/890/R/1G-R30 12.1" 500 cd/m ² XGA fanless panel PC, Intel® Atom™ N270 1.6GHz/ 512KB, 1GB DDR2, Res T/S, Silver Color, w/ACE-890A, R30, RoHS
Intel® 945GME	PPC-3712GXS-945-C4/R/1G-R30 12.1" 500 cd/m ² XGA TFT panel PC with NANO-9452, C-M 1.86GHz, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS
	PPC-3712GXS-945-T5/R/1G-R30 12.1" 500 cd/m ² XGA TFT panel PC with NANO-9452, Intel® Core Duo 1.66GHz T5500, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS

1
IEI Mobile Solutions

2
Automation Panel Solutions

3
RISC-based Solutions

4
PACSmate Medical Solutions

5
Optional Peripherals

PPC-5152-D525

15" Flat-bezel Industrial Panel PC

**Combo Gigabit LAN
(SFP Fiber/RJ-45)**

New

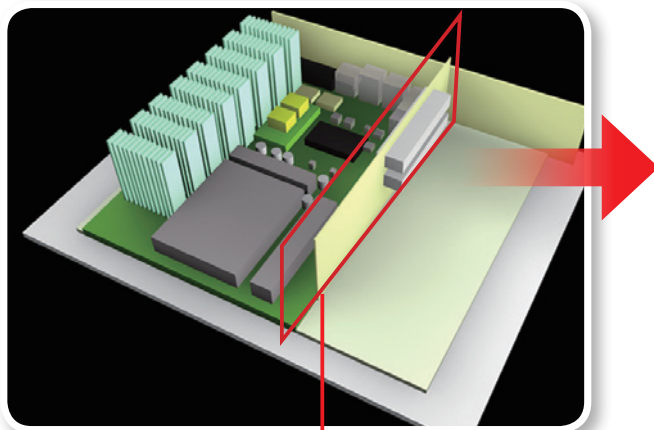
Features:

- Robust aluminum with IP 64 compliant front bezel design
- 5-wire resistive touch
- Intel® Atom™ D525 1.8GHz dual-core with fan-less design
- 15" 400 nits LED backlight panel with 1024 x 768 resolution
- Two USB 3.0, two USB 2.0 and five COM ports available
- Flexible expansion interface (two PCI slots or one PCI slot + one PCIe slot)
- Optional 4-channel video/audio capture card and Wi-Fi (802.11 b/g/n) available
- Built-in 1.3M pixels webcam with autofocus and auto enhancement and auto white balance
- Dual combo (10/100/1000 baseT(X) or 1000 baseSFP slot) gigabit LAN ports

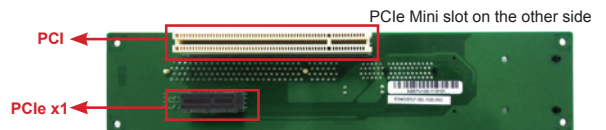


Flexible Expansion Interface

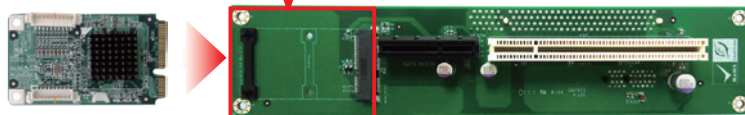
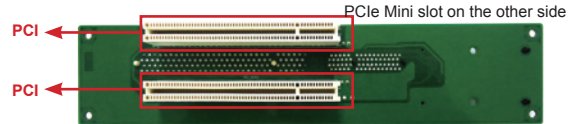
Compared to the PPC-5150, the PS2 power supply unit has been removed in order to maximize expansion ability for customers who need rich I/O connect feasibility for their using scenarios. By out a PS2, this system is able to provide three more extended connections for customers.



1. One PCI and One PCIe x1 + One PCIe Mini card slot.

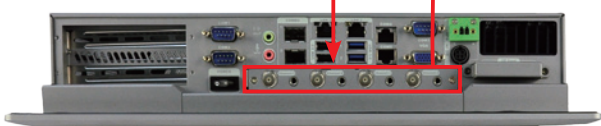


2. Two PCI slots + One PCIe Mini card slot



PCIe Mini card slot

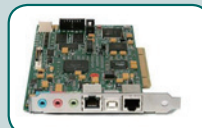
1 x 4-channel audio/video capture (optional)



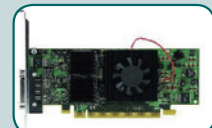
This expansion slot can be connected to any standard PCIe Mini card. We also build a specific 4-channel audio/video capture card for the back side PCIe Mini card slot.



Supports PCI card size up to 200mm x 100mm x 20mm



IP Communication Card
175.26mm x 100mm



PCI Graphics Card
167mm x 100mm



PCIe to USB3 Card
81mm x 100mm



VoIP Gateway Card
165mm x 100mm

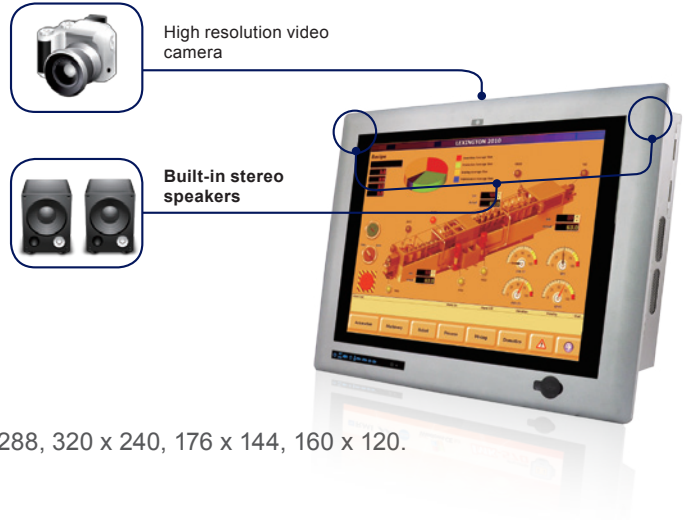
Total backplane expansion slot power up to 35W

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Rich I/O Interface with User-Friendly Design

A. 1.3M Webcam and 3W Speakers

- SXGA resolution image sensor
- Frame rate: 1280x1024@ 7.5fps max. 640x480@ 24~30fps
- Auto white balance
- Auto exposure
- Auto compensation
- Focus range from 25 cm to infinity
- Flip control option
- High speed USB 2.0 interface
- Storage format of image: AVI
- Storage format of photograph: BMP, JPEG
- Video resolution: 1280 x 1024, 800 x 600, 640 x 480, 352 x 288, 320 x 240, 176 x 144, 160 x 120.



B. Super Speed USB 3.0

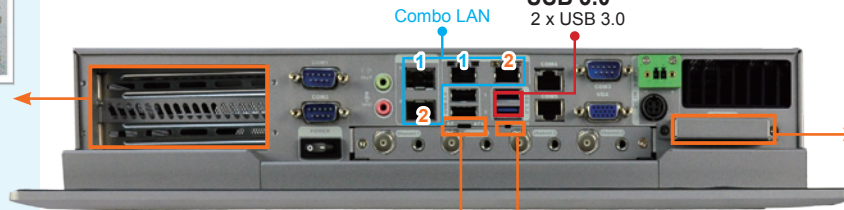
The SuperSpeed USB 3.0 technology supports data transfer rates up to 10 times faster than USB 2.0 with the optimized power efficiency.



USB 3.0
2 x USB 3.0



C. Expansion area



F. User-accessible CF

The PPC has a CF slot on the I/O side that makes it easy to install and replace the CF card.

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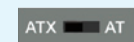
RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals



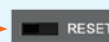
D. Selectable AT/ATX mode switch

AT power mode allows multiple panel PCs automatically start when the central power unit is connected. Applications:

- ATM
- Factory automation platform
- Self-service Kiosk

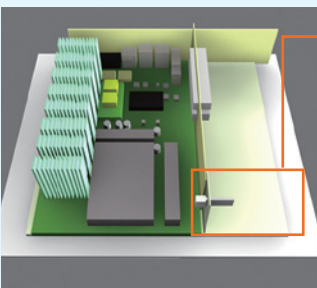
ATX power mode allows the panel PCs to be turned on/off remotely via network. Applications:

- Security surveillance
- Advertising terminal



E. Reset button

The reset button forces the system to be reset when the system hangs up.



G. Reserved internal USB

The PPC has a internal USB port reserved for an encryption card for software developers to provide intelligent software protection. The purpose of using software protection is to prevent intellectual properties from being illicitly used.



H. Front-accessible waterproof USB

The PPC provides a convenient front-accessible USB port protected with a waterproof cover for easy data update.

I. Dual Combo (SFP/RJ-45) Gigabit LAN

The PPC-5152 provides dual combo (SFP / RJ-45) gigabit LAN. For each pair of combo LAN, only one LAN port works at a time, and the SFP Fiber port works prior to the RJ-45 port. When a LAN port is working, the corresponding LED indicator lights up.



Flat-Bezel Touch Screen with IP 64 Protection

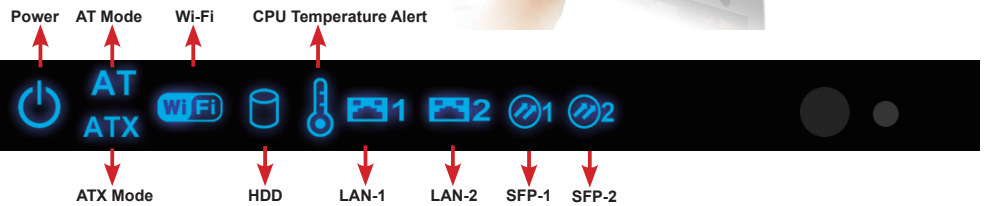
- Consumer outlook
- Industrial protection
- Flat design is easy to clean



Indicators

Power Switch

1. Press and hold 3 sec to power on
2. Press and hold 6 sec to power off



CPU Temperature Alert LED

The LED turns red to alert users that the CPU temperature is too high. Users at this time can lower the environment temperature or close some running programs to cool down the CPU.

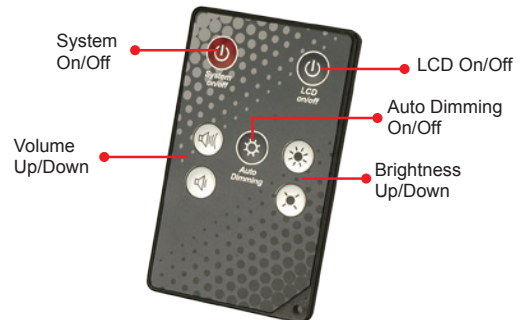
Auto Dimming

Auto dimming provides more comfortable viewing, less power consumption and extends lamp life.



IR Remote Controller

Easy-to-use remote control for adjusting screen brightness and volume.



Applications



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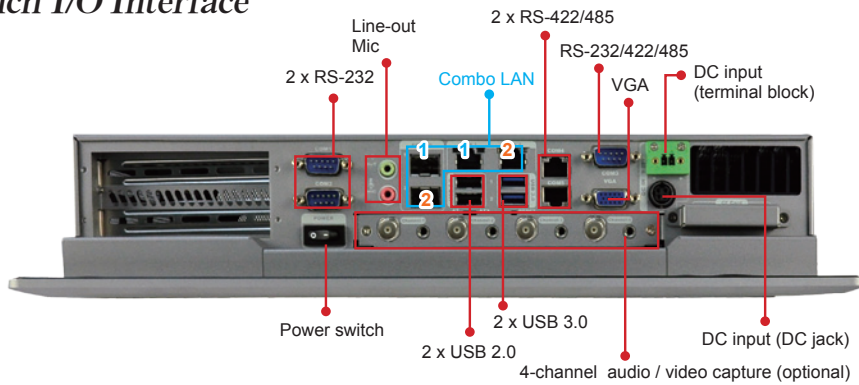
2
Automation Panel Solutions

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Optional Peripherals

Rich I/O Interface



Specifications

Model Name		PPC-5152-D525-R10
Display	LCD Size	15"
	Max Resolution	1024(W) x 768(H)
	Brightness (cd/m ²)	400
	Contrast Ratio	500:1
	LCD Color	16.2M
	Pixel Pitch (mm) (HxV)	0.1095(H) x 0.1095(V)
	Viewing Angle (V/H)	160° / 140°
	Backlight MTBF (hrs)	50000
Motherboard	SBC	PPCMB-5152A-D525
	CPU	Intel® Atom™ D525 1.8GHz dual core processor
	Chipset	Intel® ICH8M
	RAM	One 204-pin DDR3 SO-DIMM slot (system max.4GB)
I/O ports and switches		2 x RS-232 (DB-9 connector)
		1 x RS-232 or RS-422/485 (DB-9 connector)
		2 x RS-422/485 (RJ-45 connector)
		2 x USB 2.0 connector
		VGA port (DB-15 connector)
		2 x Audio jacks (line-out, Mic)
		2 x USB 3.0 connector
		AT/ATX switch
		2 x Combo (SFP / RJ-45) Gigabit LAN
		4-channel video / audio capture (optional)
Drive Bay	HDD Drive Bay	2.5" SATA HDD bay
	SSD	CF Type II socket
	CD-ROM Drive Bay	N/A
Physical	Construction Front Panel	Aluminum
	Chassis Construction	Heavy duty steel (SECC)
	Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100 mm x 100 mm)
	Front Panel Color	Silver, Paint Tone PMS 8401C
	Dimensions (WxHxD) (mm)	422 x 331 x 80
	Cut Out Dimensions (WxH) (mm)	390 x 290
Net / Gross Weight	6.5 kg/ 8.8 kg	
Expansion Slot		Two PCI slots or one PCI slot plus one PCIe x1 slot
System Cooling		Burglar-proof internal USB 2.0 port
Environment	Operating Temperature	Fanless
	Storage Temperature	-20°C ~ 50°C
	Vibration	-20°C ~ 70°C
	Shock	MIL-STD-810F 514.5C-2 (with CF card or SSD)
	IP level	Half-sine wave shock 3G; 11ms; 3 shocks per axis
	Safety & EMC	Front Panel IP 64
Power	Power Adapter	CE / FCC
	Power Requirement	90W power adapter
	Consumption	Input: 100VAC~240VAC, 50/60Hz
		Output: 19V DC
		9~36V DC Jack
		9~36V Terminal Block

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Optional Peripherals

Ordering Information

	Part No.	Description
Converter card (HPE-2S1)	PPC-5152-D525/R/1G/2P-R10	15" 400 cd/m ² XGA Fanless Panel PC with two PCI expansion slots, Intel® Atom™ D525 1.8GHz CPU, 1GB DDR3 RAM, 1.3M camera, microphone, touch screen, R10
Converter card (HPE-2S2)	PPC-5152-D525/R/1G/1P1E-R10	15" 400 cd/m ² XGA Fanless Panel PC with one PCI and one PCIe x1 expansion slot, Intel® Atom™ D525 1.8GHz CPU, 1GB DDR3 RAM, 1.3M camera, microphone, touch screen, R10

Options

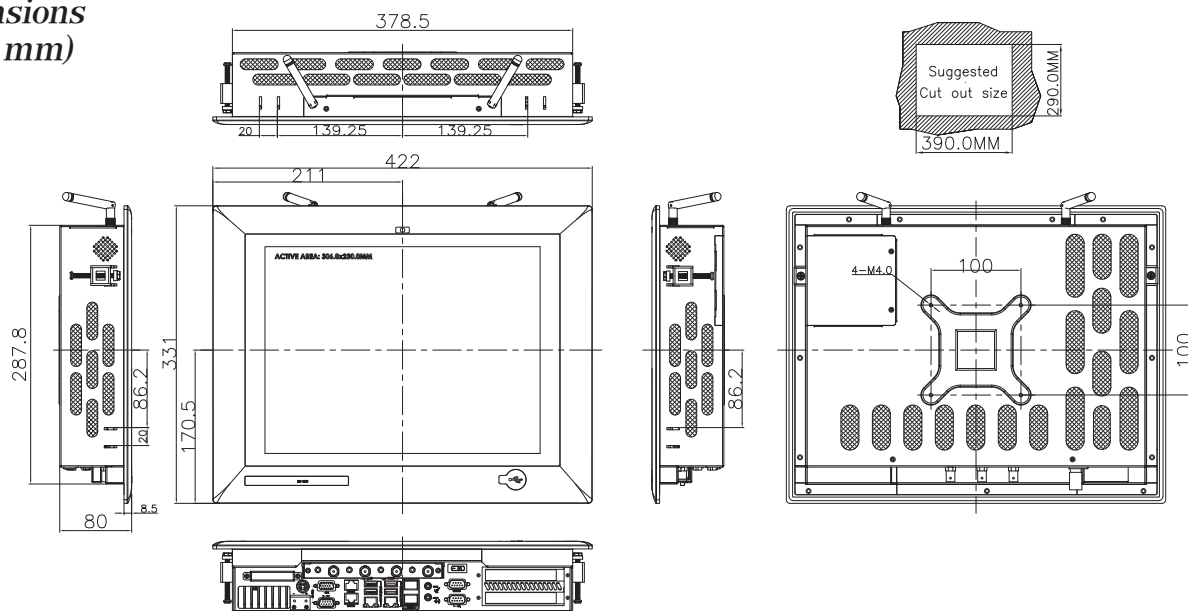
Item	P/N	Description
Panel Mounting Kit	PK-170M	
Wall Mounting Kit	WK-190MS-R10	
Rack Mounting Kit	RK-150MS2-R10	
ARM	ARM-11-RS/ARM-31-RS	
Stand	STAND-A19/STAND-B19/STAND-210-R11	
Wi-Fi Module Kit	PPC-WL-KIT01-R10	Wi-Fi module with RF cable and antennas, 2T2R, 802.11 b/g/n.
Capture Card Kit	PPC-CP-KIT01-R10	4-channel video/audio capture card with input panel and cable, PCIe Mini interface, NTSC/PAL
Gigabit Ethernet SFP Module	SFP1G-SX-I	1Gbps SFP optical transceiver, multi-mode / 550m, 850nm (0 ~ 70°C) / industrial grade (-20 ~ 85°C)
	SFP1G-MLX-I	1Gbps SFP optical transceiver, multi-mode / 2Km, 1310nm (0 ~ 70°C) / industrial grade (-40 ~ 85°C)
	SFP1G-LX10-I	1Gbps SFP optical transceiver, single-mode / 10Km, 1310nm (0 ~ 70°C) / industrial grade (-40 ~ 85°C)
	SFP1G-XD70-I	1Gbps SFP optical transceiver, single-mode / 50Km, 1550nm (0°C ~ 70°C) / industrial grade (-40°C ~ 85°C)
Fiber Cord	FPC-LCLC-MM3M	Optical connector LC/LC, multi-mode, diameter 62.5/125 μm, length 3m.
	FPC-LCLC-SS3M	Optical connector LC/LC, single-mode, diameter 9/125 μm, length 3m.
OS: Win CE 6.0 (128MB CF Card)	PPCCF-5152-D525-CE060-128M-R10	
OS: Win XPE (2GB CF Card)	PPCCF-5152-D525-XPE-2G-R10	
OS: Win XPE (4GB CF Card)	PPCCF-5152-D525-XPE-4G-R10	
OS: Linux (2GB CF Card)	PPCCF-5152-D525-LNX-2G-R10*	
OS: Win 7 Embedded (4GB CF Card)	PPCCF-5152-D525-WES7E-4G-R10	

(*it doesn't include video/audio capture card's driver)

Packing List

Item	P/N	Q'ty	Description
Utility CD	7B000-000732-RS	1	Drivers and user manual
One Key Recovery CD		1	
VESA Mounting Screw	44033-040062-RS	4	M4*6 for securing stand bracket
Chassis Screw	44013-030041-RS	4	M3*4 chassis screw for backup
Capture Card Screw	44003-030062-RS	4	M3*5 capture card screw for backup
VESA Fastener	19Z00-000024-RS	6	
HDD Screw	44043-030051-RS	4	
Pluggable DC-in Terminal Block	33101-000897-RS	1	
RJ-45 to DB9 COM port Cable	32005-000700-100-RS	2	
Touch pen	43125-0002C0-00-RS	1	
IR Remote Controller	7Z000-SLPCB005-RS	1	
Power Adapter	63040-010090-020-RS	1	FSP090-D2BA1;90~264VAC input;90W;19VDC output
Power Cord	32702-000401-100-RS	1	1500 mm, European Standard
Power Transfer Cord	32702-000300-100-RS	1	

Dimensions (Unit: mm)



15" Industrial Panel PC

PPC-5150A/9455

Intel® Core™ 2 Duo Processor with Intel® 945G Platform

PPC-5150A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



Features

1. 15" XGA Industrial Panel PC with touch screen
2. One PCI and optional PCIe x1 expansion slot
3. Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
4. One slim type CD-ROM drive bay
5. One internal 2.5" SATA HDD and CF slot
6. Robust aluminum front bezel and metal casing
7. IP 65 compliant front panel
9. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model		PPC-5150A/9455	PPC-5150A-G41
Display	LCD Size	15"	
	Max Resolution	1024(W) x 768(H)	
	Brightness (cd/m ²)	350	
	Contrast Ratio	700 : 1	
	LCD Color	16.2M	
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)	
	Viewing Angle (V/H)	125°/ 140°	
Backlight MTBF (hrs)	50000		
Motherboard	SBC	POS-9455	POS-G41
	CPU	LGA 775 Socket with Intel® Core™ 2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches	4 x RS-232		4 x RS-232
	1 x RS-232/422/485		1 x RS-232/422/485
	2 x RJ-45 for LAN Port		2 x RJ-45 for LAN Port
	4 x USB 2.0		4 x USB 2.0
	1 x VGA Port		1 x VGA Port
	1 x Line-in, 1 x Line-out, 1 x Mic-in		1 x Line-in, 1 x Line-out, 1 x Mic-in
	2 x PS/2 mouse and keyboard interface		2 x PS/2 mouse and keyboard interface
	1 x LPT		1 x LPT
	1 x Power Switch		1 x Power Switch
	1 x AT / ATX Switch		1 x AT / ATX Switch
1 x CMOS reset button		1 x CMOS reset button	
Drive Bay	HDD Driver Bay	1 x 2.5" SATA/IDE HDD bay with anti-shock	
	SSD	CF Type II	
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	
Expansion Slot	Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card)		Either 1 x PCI or PCIe x1 expansion slot (Optional PCI and PCIe x1 riser card)
	1 x PCIe Mini card		1 x PCIe Mini card
Physical	Construction Front Panel	Aluminum die-casting	
	Chassis Construction	Heavy-duty steel (SECC)	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	
	Front Panel Color	Silver (Pantone 8001C)	
	Dimensions (WxHxD) (mm)	410 x 309 x 110.5	410 x 309 x 110.5
	Cut Out Dimensions (WxH) (mm)	383.6 x 285.6	383.6 x 285.6
Environment	Net Gross Weight	7 Kg / 11 Kg	7 Kg / 11 Kg
	Operation Temperature	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak	
	Shock	10G acceleration part to part (11ms)	
Touch Screen	Resistive Type 5-Wire with RS-232 interface		
Power Supply	AC Input	P/N: 63000-ACEA618APPC-RS -180W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@14A, 12V@0.5A	P/N: ACE-A622A-RS-R11 - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	P/N: ACE-4520C-RS, 200W power supply - Input: 24 VDC(18~36 VDC) - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	

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Optional Peripherals

15" Industrial Panel PC

WIDS-515A-945G

Intel® Core™2 Duo Processor with Intel® 945G Platform

WIDS-515A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



WIDS-515A-G41 Features



1. Embedded PIFA antenna and built-in Mini PCIe 802.11b/g/n interface wireless module
2. Powered by high performance Intel® Core™2 Extreme/Quad/Duo and Celeron® processor supports up to 1333MHz FSB with Intel® G41 chipset
3. System memory supports dual-channel DDR3 DIMM up to 4 GB
4. Offers one expansion slot for PCI or PCIe x1 add-on cards
5. Dual gigabit Ethernet
6. Heavy-duty design with anti-rust chassis with aluminum IP 65 compliant front panel



Specifications

Model		WIDS-515A-945G	WIDS-515A-G41
Display	LCD Size	15 "	
	Max Resolution	1024(W) x 768(H)	
	Brightness (cd/m ²)	350	
	Contrast Ratio	700 : 1	
	LCD Color	16.2M	
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)	
	Viewing Angle (V/H)	125°/ 140°	
Backlight MTBF (hrs)		50000	
Motherboard	SBC	POS-9455	POS-G41
	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches		4 x RS-232 1 x RS-232/422/485 2 x RJ-45 for LAN Port 6 x USB 2.0 (2 waterproof USB in front of the panel) 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 2 x PS/2 mouse and keyboard interface 1 x LPT Power Switch AT / ATX Switch CMOS reset button Front USB switch	4 x RS-232 1 x RS-232/422/485 2 x RJ-45 for LAN Port 6 x USB 2.0 (2 waterproof USB in front of the panel) 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 2 x PS/2 mouse and keyboard interface 1 x LPT Power Switch AT / ATX Switch CMOS reset button Front USB switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	
	SSD	CF Type II	
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	
Wireless		Wireless 802.11 b/g/n module (PCIe Mini interface)	Wireless 802.11 b/g/n module (PCIe Mini interface)
Expansion Slot		Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card) 1 x PCIe Mini card	Either 1 x PCI or PCIe x1 expansion slot (Optional PCI and PCIe x1 riser card) 1 x PCIe Mini card
Physical	Construction Front Panel	Aluminum Die-casting	
	Chassis Construction	Heavy-duty Steel (SECC)	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	
	Front Panel Color	Silver (Pantone 8001C)	
	Dimensions (WxHxD) (mm)	410 x 309 x 110.5	410 x 309 x 110.5
	Cut Out Dimensions (WxH) (mm)	383.6 x 285.6	383.6 x 285.6
Net/Gross Weight		7 Kg / 11 Kg	7 Kg / 11 Kg
Environment	Operation Temperature	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak	
	Shock	10G acceleration part to part (11ms)	
Touch Screen		Resistive Type 5-Wire with RS-232 interface	
Power Supply	AC Input	P/N: 63000-ACEA618APPC-RS -180W Power Supply - Input: 90VAC~264VAC,50/60Hz - Output (max.): 3.3A@14A, 5V@16A,12V@14A, -12V@0.5A	P/N: ACE-A622A-RS-R11 -220W power supply -Input: 90VAC~264VAC, 50/60Hz -Output (max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	P/N: ACE-4520C-RS -200W power supply -Input: 24 VDC(18~36 VDC) -Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	

- 1 IEI Mobile Solutions
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- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Upgrade to the Quad Core CPU without Additional Rebuilding Costs



Best Performance Grade for LGA775

1. Upgradeable Performance

Upgrade from the existing Intel® 945G 65nm dual-core processor to an Intel® 65nm/45nm quad core extreme performance platform to meet the needs of a wide range of intensive applications. There's no need to rebuild the board in the process, thus saving costs.



Based on Original Mechanical Design

2008 Dual Core → 2010 Quad Core

Transition to New Generation

	PPC-51xxA-945	PPC-51xxA-G41
Upgrade Functions		
Chipset	Intel®945G	Intel®G41
CPU FSB	1066MHz 65nm	1333MHz 45nm/65nm
Graphic	Intel® Graphics Media Accelerator 950	Intel® Graphics Media Accelerator X4500
Memory	2 x 240-pin dual-channel DDR2 400/533/667MHz up to 4GB	2 x 240-pin dual-channel DDR3 1333/1066MHz up to 4GB
Based on Same Mechanism		
Expansion Slot	Either one PCIe x1 or one PCI	
System Dimensions (WxHxD) (mm)	15" : 410 x 309 x 110.5	

Quad Core

DDR3

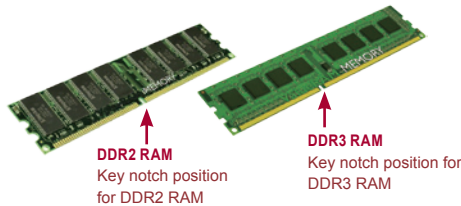
Intel® G41 Embedded CPU Support List

Brand Name	CPU No.	Clock speed	FSB	L2 cache
Core 2 Quad	Q9400(Default)	2.66G	1333	6M
	E8400	3.0G	1066	6M
Core 2 Duo	E7400	2.8G	1066	3M
	E6500	2.93G	1066	2M
Pentium D Dual Core	E5300	2.6G	800	2M
	E2160	1.8G	800	1M
Core 2 Duo	E6400	2.13G	1066	2M
	E4300	1.8G	800	2M
Pentium D Dual Core	E3400	2.4G	800	512K
	E1500(Default)	2.2G	512K	512K
Celeron	440	2.00G	800	512K

2. Effective and Low Voltage DDR3 SDRAM Support



Dual 240-pin DDR3 up to 4 GB!



DDR2 RAM
Key notch position for DDR2 RAM

DDR3 RAM
Key notch position for DDR3 RAM

Memory Type	DDR SDRAM	DDR2 SDRAM	DDR3 SDRAM
Prefetch	2-bit	4-bit	8-bit
Transfer Rate	DDR-200 ~ DDR-400	DDR2-400 ~ DDR2-800	DDR3-800 ~ DDR3-1600
Core Voltage	2.5 V	1.8 V	1.5 V

Wi-Fi 802.11a/b/g/n WLAN Networking



27 times faster data transfer rate compared to 802.11b



802.11 a/b/g/n ready with invisible antenna



Protocol	Freq. (GHz)	Thru. (Mbit/s)	Data (Mbit/s)	Range Indoor (m)	Range Outdoor (m)
802.11 a	5 GHz	23	54 Mbit/s	~35	~120
802.11 b	2.4 GHz	4.3	11 Mbit/s	~38	~140
802.11 g	2.4 GHz	19	54 Mbit/s	~38	~140
802.11 n	5 GHz and/ or 2.4 GHz	74	300 Mbit/s (2 streams)	~70	~250

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Optional Peripherals



IP 65 Security Front USB Port

Designed for industrial use, WIDS waterproof front USB cover is based around the standard USB interface. USB performance offers data transfer up to 480Mbps.

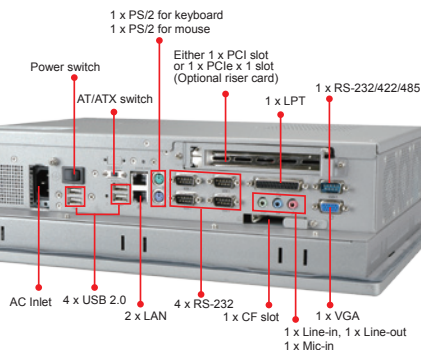
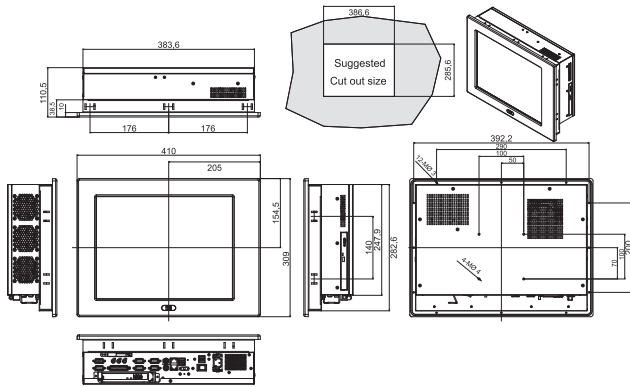


Front USB function switch allows user to enable or disable the front USB port function. Depending on the application and security demands, the system administrator can decide to release the front USB port or not.

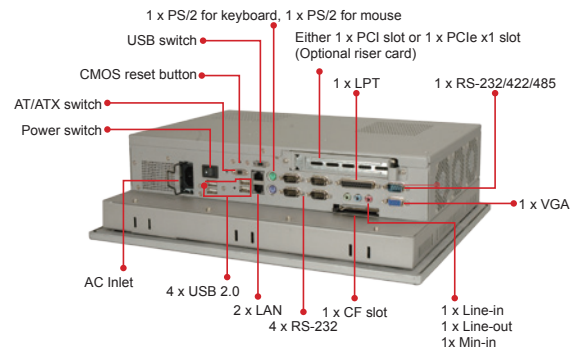
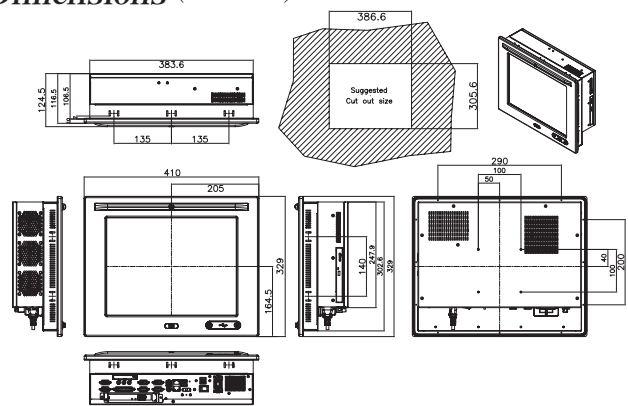


USB Switch

PPC-5150A Dimensions (Unit: mm)



WIDS-515A Dimensions (Unit: mm)



Packing List

Item	Part No.	Description
SATA CD-ROM Cable	32803-000300-100-RS	SLIMLINE SATA 7+6 P TO SATA 7P /4P POWER ,L=200/150mm.
Power Cord	32000-000002-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Pen		
User's Manual CD-ROM		

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-150MS-R10 (for PPC-5150A series) WIDSRK-170MS-R10 (for WIDS-517A series)
ARM	ARM-31-RS
STAND	STAND-210-R11

Options

Part Number	Description
19Z00-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)
41019-0393C0-00-RS	IDE HDD Bracket
32200-000037-RS	25cm HDD IDE Cable

Ordering Information

Part No.		Description	
Intel® 945G Platform	w/o Wi-Fi	AC Input	PPC-5150A-R11/9455-E2160/A618A/T-R/1GB 15" 350 cd/m² XGA Panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-A618AP, touch screen, RoHS
		18~36 V DC input	PPC-5150A-R11/9455-E2160/4520C/T-R/1GB 15" 350 cd/m² XGA Panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen, RoHS
	Wi-Fi	AC Input	WIDS-515A/9455-E2160/A618A/W-T-R/1GB 15" 350 cd/m² XGA Panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-A618A, touch screen, RoHS
		18~36 V DC input	WIDS-515A/9455-E2160/4520C/W-T-R/1GB 15" 350 cd/m² XGA Panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® G41 Platform	w/o Wi-Fi	AC Input	PPC-5150A-G41-E15/R/1G-R10 15" 350 cd/m² XGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		AC Input	PPC-5150A-G41-Q94/R/1G-R10 15" 350cd/m² XGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		18~36 V DC input	PPC-5150AD-G41-E15/R/1G-R10 15" 350 cd/m² XGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
		18~36 V DC input	PPC-5150AD-G41-Q94/R/1G-R10 15" 350 cd/m² XGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
	Wi-Fi	AC Input	WIDS-515A-G41-E15/R/1G-R10 15" 350 cd/m² XGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		AC Input	WIDS-515A-G41-Q94/R/1G-R10 15" 350 cd/m² XGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card"
		18~36 V DC input	WIDS-515AD-G41-E15/R/1G-R10 15" 350 cd/m² XGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
		18~36 V DC input	WIDS-515AD-G41-Q94/R/1G-R10 15" 350 cd/m² XGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card"
Riser Card		PCIR-01H-R10	1-Slot PCI riser card
		PCIER-101H-R10	1-Slot PCIe x1 riser card

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

17" Industrial Panel PC

PPC-5170A/9455

Intel® Core™ 2 Duo Processor with Intel® 945G Platform

PPC-5170A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



Features

1. 17" high brightness TFT LCD with LED backlight
2. Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. One internal 2.5" SATA HDD and CF slot
4. Robust aluminum front bezel and metal casing
5. IP 65 compliant front panel
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model		PPC-5170A/9455	PPC-5170A-G41
Display	LCD Size	17"	
	Max Resolution	1280(W) x 1024(H)	1280(W) x 1024(H)
	Brightness (cd/m ²)	300	380
	Contrast Ratio	800 : 1	1000 : 1
	LCD Color	16.7M	16.7M
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)
	Viewing Angle (V/H)	160°/ 160°	160°/170°
	Backlight MTBF (hrs)	50000	50000
Motherboard	SBC	POS-9455	POS-G41
	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches	4 x RS-232		4 x RS-232
	1 x RS-232/422/485 Port		1 x RS-232/422/485 Port
	2 x RJ-45 for LAN Port		2 x RJ-45 for LAN Port
	4 x USB 2.0		4 x USB 2.0
	1 x VGA Port		1 x VGA Port
	1 x Line-in, 1 x Line-out, 1 x Mic-in		1 x Line-in, 1 x Line-out, 1 x Mic-in
	2 x PS/2 mouse and keyboard interface		2 x PS/2 mouse and keyboard interface
	1 x Power Switch		Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	
	SSD	CF Type II	
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	
Expansion Slot	Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card))		Either 1 x PCI or PCIe x1 expansion slot (Optional PCI and PCIe x1 riser card)
	1 x PCIe Mini card		1 x PCIe Mini card
Physical	Construction Front Panel	Aluminum Die-casting	
	Chassis Construction	Heavy-duty steel (SECC)	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	
	Front Panel Color	Silver (Pantone 8001C)	
	Dimensions (WxHxD) (mm)	452 x 356 x 115	452 x 356 x 115
	Cut Out Dimensions (WxH) (mm)	424.5 x 330.5	424.5 x 330.5
	Net /Gross Weight	8 Kg / 12 Kg	8 Kg / 12 Kg
Environment	IP Rating	Front IP 65 Compliant	
	Operation Temperature	-10°C~50°C	
	Storage Temperature	-20°C~60°C	
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak	
Touch Screen	Resistive Type 5-Wire with RS-232 interface		10G acceleration part to part (11ms)
	Shock		
Power Supply	AC Input	P/N: 63000-ACEA618APPC-RS -180W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output (max.): 3.3A@14A, 5V@16A, 12V@14A, -12V@0.5A	P/N: ACE-A622A-RS-R11 -220W power supply -Input: 90VAC~264VAC, 50/60Hz -Output (max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	P/N: ACE-4520C-RS -200W power supply -Input: 24 VDC(18~36 VDC) -Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	

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IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

4

PACSmart Medical Solutions

5

Optional Peripherals

17" Industrial Panel PC

WIDS-517A-945G

Intel® Core™2 Duo Processor with Intel® 945G Platform

WIDS-517A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



Features

1. Embedded PIFA antenna and built-in Mini PCIe 802.11b/g/n interface wireless module
2. Powered by high performance Intel® Core™2 Extreme/Quad/Duo and Celeron® processor supports up to 1333MHz FSB with Intel® G41 chipset
3. System memory supports dual-channel DDR3 DIMM up to 4 GB
4. Offers one expansion slot for PCI or PCIe x1 add-on cards
5. Dual gigabit Ethernet
6. Heavy-duty design with anti-rust chassis with aluminum IP 65 compliant front panel

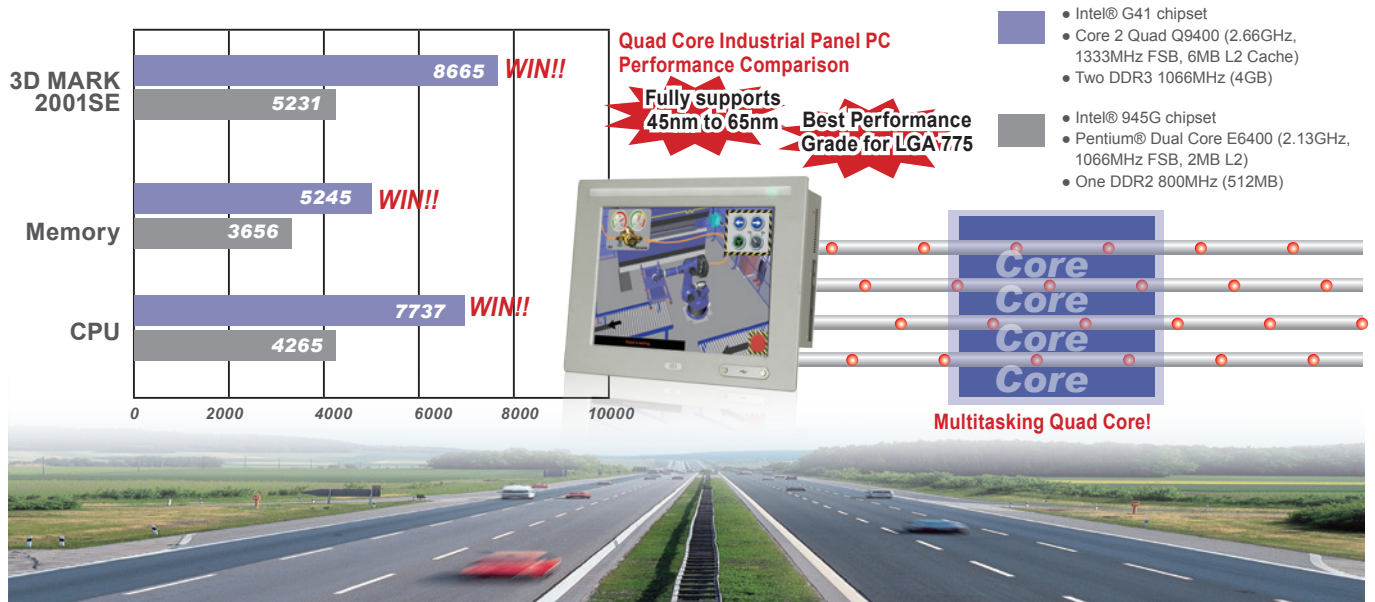


Specifications

Model		WIDS-517A-945G	WIDS-517A-G41
Display	LCD Size	17"	
	Max Resolution	1280(W) x 1024(H)	
	Brightness (cd/m2)	300	380
	Contrast Ratio	1000 : 1	
	LCD Color	16.7M	
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)	
	Viewing Angle (V/H)	160°/170°	
	Backlight MTBF (hrs)	50000	
Motherboard	SBC	POS-9455	POS-G41
	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches	4 x RS-232		4 x RS-232
	1 x RS-232/422/485		1 x RS-232/422/485
	2 x RJ-45 for LAN Port		2 x RJ-45 for LAN Port
	6 x USB 2.0 (2 waterproof USB in front of the panel)		6 x USB 2.0 (2 waterproof USB in front of the panel)
	1 x VGA Port		1 x VGA Port
	1 x Line-in, 1 x Line-out, 1 x Mic-in		1 x Line-in, 1 x Line-out, 1 x Mic-in
	2 x PS/2 mouse and keyboard interface		2 x PS/2 mouse and keyboard interface
	Power Switch		Power Switch
	AT / ATX Switch		AT / ATX Switch
	1 x LPT		1 x LPT
CMOS reset button		CMOS reset button	
Front USB switch		Front USB switch	
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	
	SSD	CF Type II	
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	
Wireless	Wireless 802.11 b/g/n module (PCIe Mini interface)		
Expansion Slot	Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card))		Either 1 x PCI or PCIe x1 expansion slot (Optional PCI and PCIe x1 riser card)
	1 x PCIe Mini card		1 x PCIe Mini card
Physical	Construction Front Panel	Aluminum Die-casting	
	Chassis Construction	Heavy-duty Steel (SECC)	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	
	Front Panel Color	Silver (Pantone 8001C)	
	Dimensions (WxHxD) (mm)	452 x 356 x 115	452 x 376 x 123
	Cut Out Dimensions (WxH) (mm)	425 x 331	425 x 350
	Net/Gross Weight	8 Kg / 12 Kg	8 Kg / 12 Kg
Environment	IP Rating	Front IP 65 Compliant	
	Operation Temperature	-10°C~50°C	
	Storage Temperature	-20°C~60°C	
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak	
Touch Screen	Shock		10G acceleration part to part (11ms)
	Resistive Type 5-Wire with RS-232 interface		
Power Supply	AC Input	P/N: 63000-ACEA622APPC-RS, 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A	P/N: ACE-A622A-RS, 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Upgrade to the Quad Core CPU without Additional Rebuilding Costs!



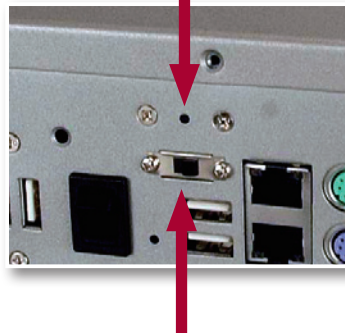
User Friendly Design



4. CMOS Reset Button

The CMOS reset button forces the BIOS to be reset to its default values for the following reasons:

- Fast BIOS updating
- Hard device conflicts or disruptions to system operation



Restoring default system settings!



1

IEI Mobile Solutions

1. User-accessible CF

PPC has a CF slot on the bottom panel that makes installing and replacing CF cards easy.

2

Automation Panel Solutions



2. Securing Your CF Card

PPC has a CF slot on the bottom panel. A security door on the PPC protects the CF card from being stolen in public places.

3

RISC-based Solutions



3. Lockable Power Cord

Power plug lock keeps power cable securely in place.

4

PACSmate Medical Solutions

5

Optional Peripherals

5. AT/ATX Mode Switch

Select AT or ATX power mode with an easily accessible switch.

Production Line



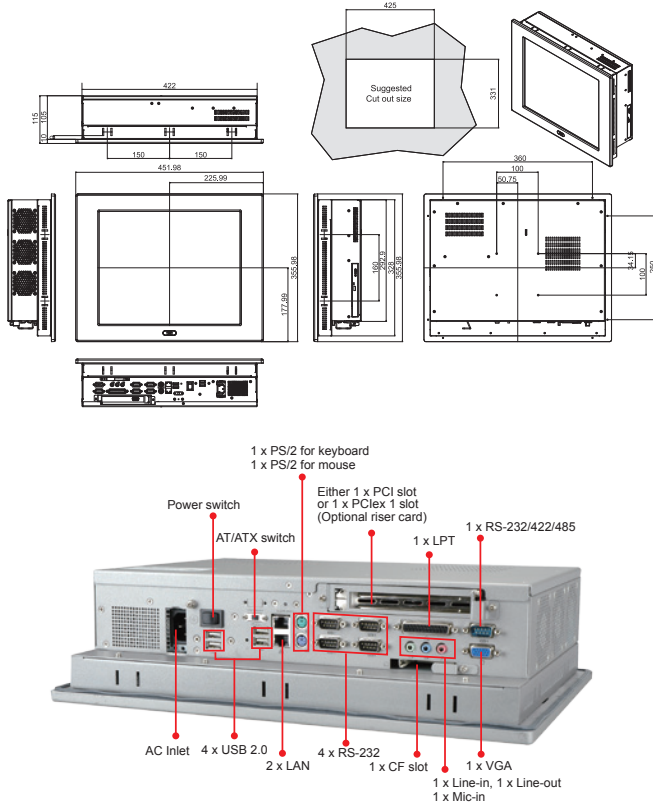
AT power mode allows multiple panel PCs to automatically start when the central power unit is connected.

General Ticketing Machine (GTM)

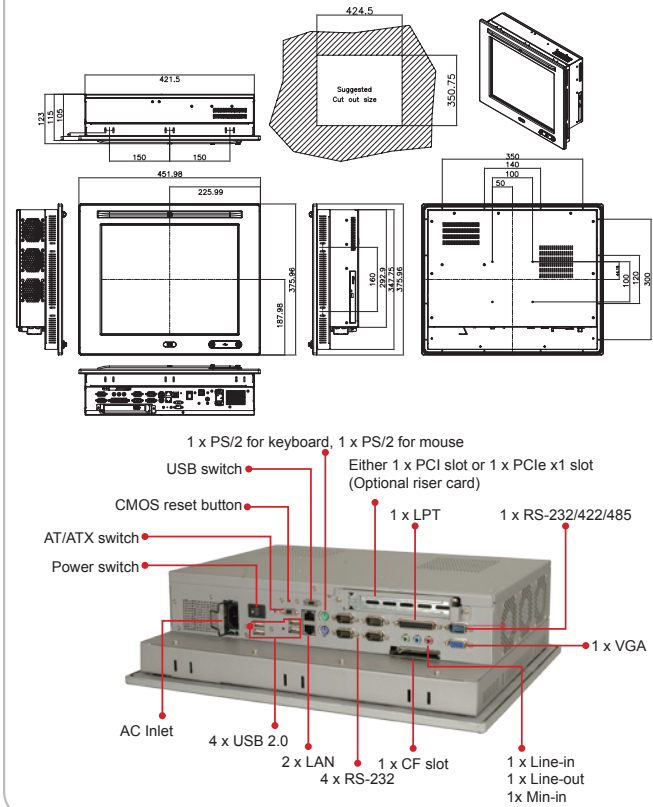


The ATX power mode allows the panel PCs to be turned on/off remotely via network.

PPC-5170A Dimensions (Unit: mm)



WIDS-517A Dimensions (Unit: mm)



Packing List

Item	Part No.	Description
SATA CD-ROM Cable	32803-000300-100-RS	SLIMLINE SATA 7+6 P TO SATA 7P /4P POWER ,L=200/150mm.
Power Cord	32000-000002-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Panel Mount Kit	19200-000024-RS	
Wall Mount Kit	41020-016102-00-RS	
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Pen		
User's Manual CD-ROM		

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-170MS-R10 (for PPC-5170A series) WIDSRK-170MS-R10 (for WIDS-517A series)
ARM	ARM-31-RS
STAND	STAND-210-R11

Options

Part No.	Description
19200-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)
41019-0393C0-00-RS	IDE HDD Bracket
32200-000037-RS	25cm HDD IDE Cable

Ordering Information

Part No.			Description
Intel® 945G Platform	w/o Wi-Fi	AC Input	PPC-5170A-R11/9455-E2160/A622A/T-R/1GB 17" 300 cd/m² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-A622A, touch screen, RoHS
		18~36 V DC input	PPC-5170A-R11/9455-E2160/4520C/T-R/1GB 17" 300 cd/m² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen, ,RoHS
	Wi-Fi	AC Input	WIDS-517A/9455-E2160/A622A/WT-R/1GB 17" 300 cd/m² SXGA panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
		18~36 V DC input	WIDS-517A/9455-E2160/4520C/WT-R/1GB 17" 300 cd/m² SXGA panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® G41 Platform	w/o Wi-Fi	AC Input	PPC-5170A-G41-E15/R/1G-R10 17" 380 cd/m² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		AC Input	PPC-5170A-G41-Q94/R/1G-R10 17" 380 cd/m² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		18~36 V DC input	PPC-5170AD-G41-E15/R/1G-R10 17" 380 cd/m² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
	Wi-Fi	AC Input	PPC-5170AD-G41-Q94/R/1G-R10 17" 380 cd/m² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
		AC Input	WIDS-517A-G41-E15/R/1G-R10 17" 380 cd/m² SXGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, ACE-A622A, touch screen, w/o riser card
		AC Input	WIDS-517A-G41-Q94/R/1G-R10 17" 380 cd/m² SXGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
Riser Card		PCIR-01H-R10	1-Slot PCI riser card
		PCIER-101H-R10	1-Slot PCIe x 1 riser card

19" Industrial Panel PC

PPC-5190A/9455

Intel® Core™2 Duo Processor with Intel® 945G Platform

PPC-5190A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform

Best Performance Grade for LGA 775
Quad Core + DDR3



Features

1. 19" 300 nits/450 nits high brightness TFT LCD with LED backlight
2. Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. One internal 2.5" SATA HDD and CF slot
4. Robust aluminum front bezel and metal casing
5. IP 65 compliant front panel
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



symantec

Specifications

Model		PPC-5190A/9455	PPC-5190A/G41
Display	LCD Size	19"	
	Max Resolution	1280(W) x 1024(H)	
	Brightness (cd/m ²)	300	450
	Contrast Ratio	700 : 1	1000 : 1
	LCD Color	16.7M	16.7M
	Pixel Pitch (mm) (HxV)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)
	Viewing Angle (V/H)	160° / 170°	160° / 170°
	Backlight MTBF (hrs)	50000	50000
Motherboard	SBC	POS-9455	POS-G41
	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches		4 x RS-232 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 6 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 2 x PS/2 mouse and keyboard interface 1 x Power Switch 1 x AT / ATX Switch 1 x LPT	4 x RS-232 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 6 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 2 x PS/2 mouse and keyboard interface 1 x Power Switch 1 x AT / ATX Switch 1 x LPT
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	
	SSD	CF Type II	
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay	
Expansion Slot		Either 1 x PCI or PCIe x1 expansion slot (optional) 1 x PCIe Mini card	
Physical	Construction Front Panel	Aluminum	
	Chassis Construction	Heavy-duty Steel	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	
	Front Panel Color	Silver (Pantone 8001C)	
	Dimensions (WxHxD) (mm)	483 x 399 x 115.2	
	Cut Out Dimensions (WxH) (mm)	450 x 363	
Environment	Net / Gross Weight	12.6 Kg / 18.2 Kg	
	Operation Temperature	-10°C~50°C	
	Storage Temperature	-20°C~60°C	
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak	
	Shock	10G acceleration part to part (11ms)	
	IP Rating	Front IP 65 Compliant	
Touch Screen		Resistive Type 5-Wire with RS-232 interface	
Power Supply	AC Input	P/N: 63000-ACEA622APPC-RS- 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A	P/N: ACE-A622A-RS-R11 - 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output (max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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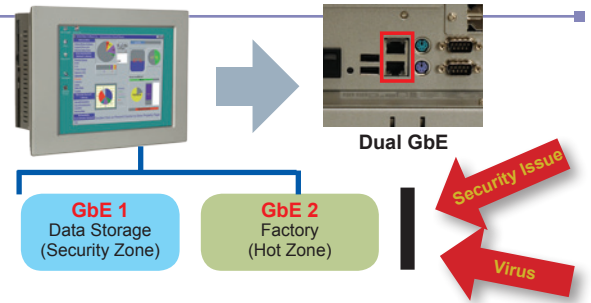
PACSmate Medical Solutions

5

Optional Peripherals

Dual 10/100/Gigabit Ethernet Support

The PPC-5170 provides dual independent gigabit LAN ports. In HMI application environments, many system integrators prefer dual independent LAN to allocate factory zone and data storage zone to reduce the possibility of the network crash or virus infection.



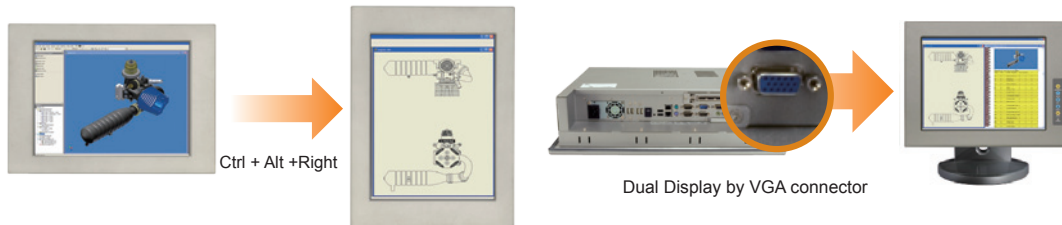
Big Screen for Multi-Display

The PPC-5190 is equipped with a 19" TFT LCD ideal for multi-display requirements such as digital surveillance or multi-operating system. With multi-display configuration, users can handle more tasks at the same time as well as saving resources and space.



Screen Rotation for More Flexibility

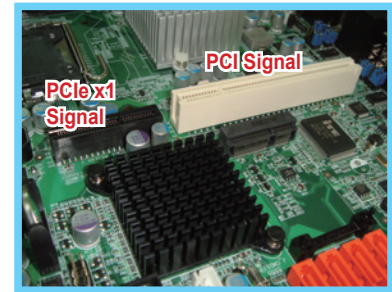
With the Intel® driver installed, the screen orientation can be adjusted using the GUI or hot keys. By attaching with a rotational VESA mount arm, the user can rotate the screen as needed. Add a second display for even more viewing flexibility.



PCI/PCIe Expansion Capability



- Capture Card
- Data Acquisition & Control Card
- Ethernet Card
- Communication Card
- Motion Control Card
- CAN-bus/ Profi-Bus



Built-in AC/DC Power Supply

Built-in power supply without any external power adapter!

AC Input Directly!



DC 24V Input



DC 48V Input



PPC-51xxA-G41 with ACE-A622A



Input Range	Voltage	90~264 VAC
	Frequency	47~63 Hz
Output Voltage		220 W
Temperature	Operating	0°C~50°C
	Storage	-20°C~80°C
Efficiency		80%

PPC-51xxAD-G41 With ACE-4520C



Input Range	Voltage	24 VDC(18~36 VDC)
Output Voltage		200 W
Temperature	Operating	0°C~50°C
	Storage	-20°C~80°C
Efficiency		78%

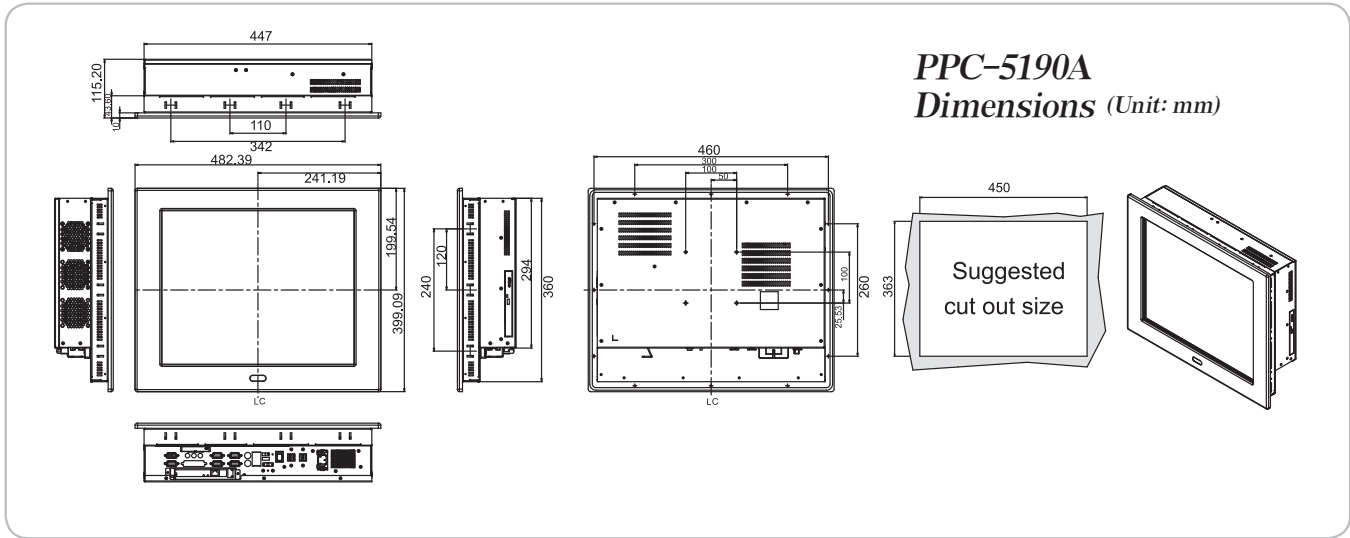
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IEI Mobile Solutions

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Optional Peripherals

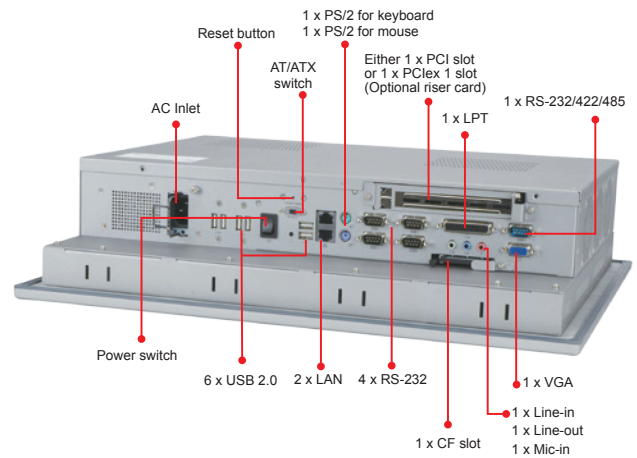


IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-190MS-R10
ARM	ARM-31-RS
STAND	STAND-210-R11

Options

Part No.	Description
19Z00-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)
41019-0393C0-00-RS	IDE HDD Bracket
32200-000037-RS	25cm HDD IDE Cable



1

IEI Mobile Solutions

Packing List

Item	Part No.	Description
User's Manual CD-ROM		
SATA CD-ROM Cable	32803-000300-100-RS	SLIMLINE SATA 7+6 P TO SATA 7P /4P POWER ,L=200/150mm.
Power Cord	32000-000002-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Pen		

2

Automation Panel Solutions

Ordering Information

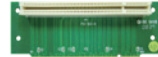
Part No.		Description
Intel® 945G Platform	AC Input	PPC-5190A-R11/9455-E2160/A622A/T-R/1GB 19" 450 cd/m ² SXGA panel PC with POS-9455 R11 version,Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color,PSU ACE-A622A, touch screen, RoHS
	18~36 V DC input	PPC-5190A-R11/9455-E2160/4520C/T-R/1GB 19" 450 cd/m ² SXGA panel PC with POS-9455 R11 version,Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen, ,RoHS
Intel® G41 Platform	AC Input	PPC-5190A-G41-E15/R/1G-R10 19" 450 cd/m ² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		PPC-5190A-G41-Q94/R/1G-R10 19" 450 cd/m ² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	18~36 V DC input	PPC-5190AD-G41-E15/R/1G-R10 19" 450 cd/m ² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM,silver color, PSU ACE-4520C, touch screen, w/o riser card
		PPC-5190AD-G41-Q94/R/1G-R10 19" 450 cd/m ² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM,silver color, PSU ACE-4520C, touch screen, w/o riser card
Riser Card	PCIR-01H-R10	1-Slot PCI riser card
	PCIER-101H-R10	1-Slot PCIe x1 riser card

PCIER-101H-R10



PCle x4 slot with PCle x1 signal riser card

PCIR-01H-R10



One Slot PCI riser card

Industrial Vertical Market PPC Selection Guide



Model		SAILORPC-12A(SR)-N270	UPC-V312-D525	UPC-12AH/GM45
Display	LCD Size	12.1"	12.1"	12.1"
	Max Resolution	1024 x 768	1024 x 768	1024 x 768
	Brightness (cd/m2)	400 (1000)	600	450 (1000)
	Contrast Ratio	500 : 1 (700 : 1)	700 : 1	700 : 1
	LCD Color	262K	16.2M	262K
	Pixel Pitch (mm) (HxV)	0.240 (H) x 0.240 (V)	0.240 (H) x 0.240 (V)	0.240 (H) x 0.240 (V)
	Viewing Angle (V/H)	120°/100° (120°/130°)	150° / 130°	160°/160° (120°/130°)
	Backlight MTBF (hrs)	60000 (50000)	50000	50000
Motherboard	CPU	Intel® Atom™ N270 1.6GHz CPU	Intel® Atom™ D525 1.8GHz dual core processor	Intel® Celeron M 575 2.0GHz CPU/ Intel® Core 2 Duo P8400 2.26 GHz CPU / Intel® Core 2 Duo T9400 2.53GHz CPU
	Chipset	Intel® 945GSE + ICH7M	Intel® ICH8M	Intel® GM45+ICH9M
	RAM	Supports one 400/533MHz DDR2 SO-DIMM (2GB Max.)	On-board 1G DDR3 SO-DIMM (System Max. 1GB)	Supports two 667/800 MHz DDR2 SO-DIMM (4GB Max.)
I/O Ports and Switches		1 x 5-pin M12 connector for power Adapter 1 x 8-pin M12 connector for two USB 1 x 5-pin M12 connector for CAN bus and Audio line out 1 x 8-pin M12 connector for UART RS-232/422/485 1 x 8-pin M12 connector for UART RS-232 1 x 8-pin M12 connector for GbE LAN	RS-422/485 (4-pin box header) RS-232 (DB-9 connector) CAN-bus (3-pin terminal block) GbE LAN (RJ-45 connector) 4 x USB connector Audio jack (Line out, Mic) VGA port (DB-15 connector) DC-IN 1 (terminal block) / DC-IN 2 (DC Jack) Reset button AT/ATX switch	3 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 6 x USB 2.0 (2 waterproof USBs in front Panel) 1 x VGA Port 1 x Power Switch 1 x Audio Jack (Lin-out, Mic-in) 1 x Reset Button 1 x 9~28VDC Power Jack 1 x 9~28VDC Power Input Terminal Block 1 x Networking UPS Management Port by RJ-45 Ethernet 1 x UPS Remote Power Switch (2 pin terminal block)
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay with anti-shock	N/A	1 x 2.5" SATA HDD Bay with anti-shock
	SSD	CF Type II	CF Type II socket / mSATA (optional)	CF Type II
	CD-ROM Driver Bay	-	-	-
Expansion Slot		Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)	Mini PCIe slot for Wi-Fi	Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)
		-	Mini PCIe slot for mSATA (Optional)	Either 1 x PCI or PClex1 expansion slot
System Cooling		Fanless	Fanless	Active with Fan
Battery	Capacity	-	-	14.8V, 3800 mAH
	UPS run-time	-	-	30~40 mins
Environment	Operation Temperature	-10°C ~50°C	-20°C~60°C	-10°C ~50°C
	Storage Temperature	-20°C~60°C	-40°C~85°C	-20°C~60°C
IP Rating		IP 67	6-side IP 65	Front IP 65

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Industrial Vertical Market PPC Selection Guide



Model		WIDS-515A/9455	WIDS-515A-G41	WIDS-517A/9455	WIDS-517A-G41
Display	LCD Size	15"		17"	
	Max Resolution	1024(W) x 768(H)		1280(W) x 1024(H)	
	Brightness (cd/m2)	350		380	
	Contrast Ratio	700 : 1		1000 : 1	
	LCD Color	16.2M		16.7M	
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)		0.264(H) x 0.264(V)	
	Viewing Angle (V/H)	125°/ 140°		160°/170°	
	Backlight MTBF (hrs)	50000		50000	
Motherboard	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	2 x 240-pin DIMM socket, supporting DDRII 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDRII 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
I/O Ports and Switches		4 x RS-232 COM Port 2 x RJ-45 for Giga LAN 1 x RS-232/422/485 COM Port 3 x Audio (Lin-in, Line-out, Mic-in) 6 x USB 2.0 (2 waterproof USB in the front of the panel) 1 x CMOS reset button 2 x PS/2 (KB/MS) 1 x AT/ATX switch 1 x LPT 1 x USB switch 1 x VGA Port			
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay with anti-shock			
	SSD	CF Type II			
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay			
Expansion Slot		Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)	Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)	Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)	Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)
		Either 1 x PCI or PCIe1 expansion slot			
System Cooling		Active with Fan	Active with Fan	Active with Fan	Active with Fan
Battery	Capacity	-	-	-	-
	UPS run-time	-	-	-	-
Environment	Operation Temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
IP Rating		Front IP 65			

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

SAILORPC-12A

12.1" Full IP 67 Panel PC

Full IP 67
Up to 1 meter of submersion

Features:

- 12.1" 1000 nits super high brightness TFT LCD available
- IP 67 (NEMA 6) fully-enclosed aluminum die cast enclosure and IP 67 waterproof lockable I/O
- Fanless system integrated with Intel® Atom™ N270 1.6G processor for ultra low voltage
- Supports one 2.0 GB (max.) 400/533 MHz DDR2 SO-DIMM
- Built-in internal Wi-Fi antenna supports 802.11 b/g/n high standard
- CAN-Bus interface for automotive applications
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
(Advanced Deep Dimming to Black for sunlight readable model)
- Standard VESA 75/100 compliance

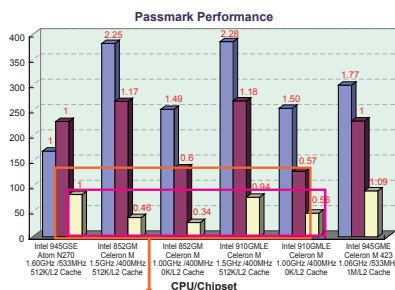


COMPUTEX TAIPEI 2009
BEST CHOICE



Rugged Panel PC with Fanless Intel® Atom™ Processor

The fanless intelligent display computer, SAILORPC-12A, uses a 45 nm Intel® Atom™ processor with up to 1.6 GHz frequency and can be used in harsh and safety-critical applications in transport, avionics, engineering or industrial automation. Better graphic performance is excellent for kiosk, self-service terminal, and digital signage applications.



Out Door Control System



National Park Guiding System



Zoo Guide

Evaluating 3D mark performance with different generation CPU and chipset combination, Intel® Atom™ processor is the best solution for low power consumption and better graphic performance choice.

Sunlight Readable

Super High Brightness

SAILORPC-12ASR (Sunlight Readable Model) has greatly improved luminance through edge lighting to achieve super high brightness (up to 1000 cd/m²).

Low Reflection through AR (Anti-Reflection) Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. SAILORPC-12ASR sunlight readable model offers special AR (anti-reflection) surface treatment to prevent reflection, which ensures excellent visibility in daylight conditions.



Reduced Reflection of Light

Super High Brightness: 1000 nits
High Contrast: 700:1
Wide Viewing Angle: 60/60 (R/L) 45/75 (U/D)

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- 5 Optional Peripherals

IP 67 Fully-Enclosed Design

The SAILORPC-A12 is front sealed and tested in the certified house chamber under UL's Witnessed Test Data Program (TDP). IEI follows IP 67 standard testing procedures. This full IP 67 touch monitor provides full IP 67 protection including connectors, cables and screen.

[IP 67] Dust-Tight

First Digit The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

Level		Effective Against
6		No ingress of dust; complete protection against contact

[IP 67] Temporary immersion under water 1m

Second Digit Protection of the equipment inside the enclosure against harmful ingress of water

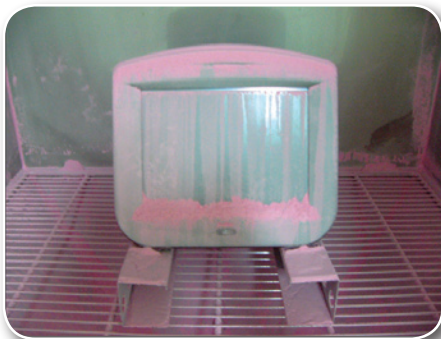
Level		Effective Against
7		Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1m of submersion)

Sealing enclosure with all sides of IP 67 !



■ IP6X Test

• Test for protection against dust



■ IPX7 Test



• Test for protection against water

Protected against the effects of temporary immersion between 15 cm and 1m. Duration of test is 30 minutes



• Air Flow Test

Air pressure measurement is used as the IP 67 test method, the air flow tester is capable of detecting leaks in product and evaluates the pass/fail status of the watertight system.

Uninterrupted Wireless Connection

The SAILORPC-12A series features high speed Wi-Fi IEEE 802.n protocol which builds on previous 802 standards by adding multiple-input multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve system performance.



27 times faster data transfer rate compared to 802.11b

Protocol	Freq. (GHz)	Thru. (Mbit/s)	Data (Mbit/s)	Range indoor (m)	Range outdoor (m)
802.11					
a	5 GHz	23	54 Mbit/s	~35	~120
b	2.4 GHz	4.3	11 Mbit/s	~38	~140
g	2.4 GHz	19	54 Mbit/s	~38	~140
n	5 GHz and/or 2.4 GHz	74	300 Mbit/s (2 streams)	~70	~250

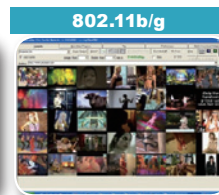
802.11b/g Wi-Fi, which gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN.

The benefits here:

- Simple configuration
- Without hinders worker movement
- Without lessens man-hour productivity
- Without additional purchase of proprietary cables for specific devices
- Without the barrier to space



Access to email, instant image and the Internet



Streaming music
Streaming video



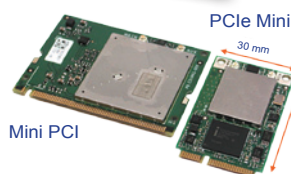
VoIP /Gaming /NAS

802.11b/g/n ready with invisible antenna



Benefit

- * Half the size of Mini-PCI
- * Higher bandwidth interface
- * Rigid mechanical spec.



Mini PCI

PCIe Mini

30 mm

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IEI Mobile Solutions

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Optional Peripherals

Ambient Light Sensor

The SAILORPC-12A built-in ambient light sensor automatically detects the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

Benefits:

- Provides comfortable viewing and prevents eye strain
- Power saving
- Extended lamp life



Day Mode:
Adjust to maximum 1000 nits
Sunlight Readable automatically

Panel brightness auto-adjustment depends on the ambient light amount to save the system power

Night Mode:
Adjust to acceptable brightness automatically in a insufficient light ambient

CAN-Bus Automotive Applications

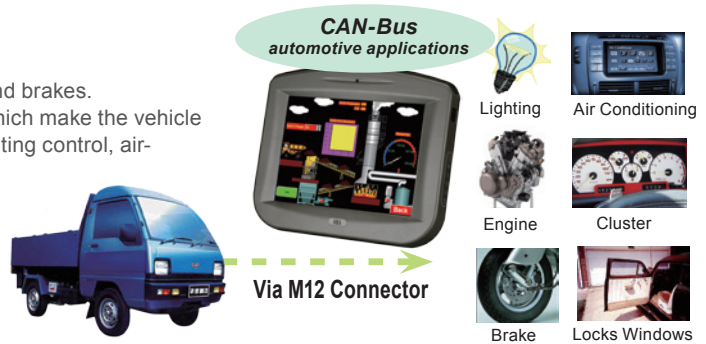
The SAILORPC-12A is equipped with automotive applied CAN-Bus interface. The Control Area Network (CAN) is a serial bus system, originally developed by Bosch for use in automobiles, and now is increasingly being used for control in industrial and automotive applications

Controller Area Network

- 1Mb/s data rate
- High reliability bus
- CAN is an open standard with many variants
- Capable of providing real-time communication.

■ CAN in cars and truck engine

- Networking controllers for engine timing, transmission, chassis and brakes.
- Networking components of chassis electronics and electronics which make the vehicle more comfortable. Examples of such multiplex applications are lighting control, air-conditioning, central locking and seat and mirror adjustment.



Other Application Fields:

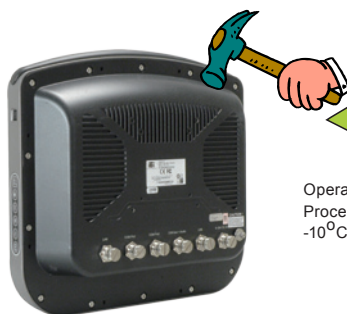


Reliable Die-Cast Aluminum Chassis

These ruggedized LCD products are designed for high reliability, shock and vibration tolerance, survival of high temperature, and corrosive environments. External materials like dust/water can be very destructive to any type of equipment over time.

■ Fanless and Completely Sealed Strong Housing

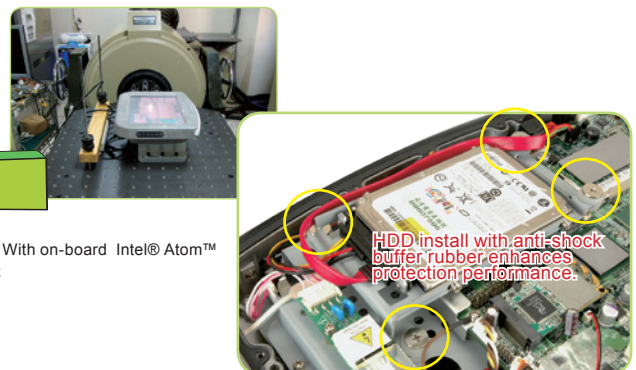
Sealed housing strictly prevents water invasion while the rugged die-cast aluminum enclosure eliminates the need for a fan as a heat dissipation device.



Operating Temperature: With on-board Intel® Atom™ Processor N270 1.6GHz
-10°C~50°C

■ Rigorous Shock/Vibration Test

Compliant with MIL-STD-810F shock and vibration protection, as well as offering IP 67 water and dust proof front panel protection.



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IEI Mobile Solutions

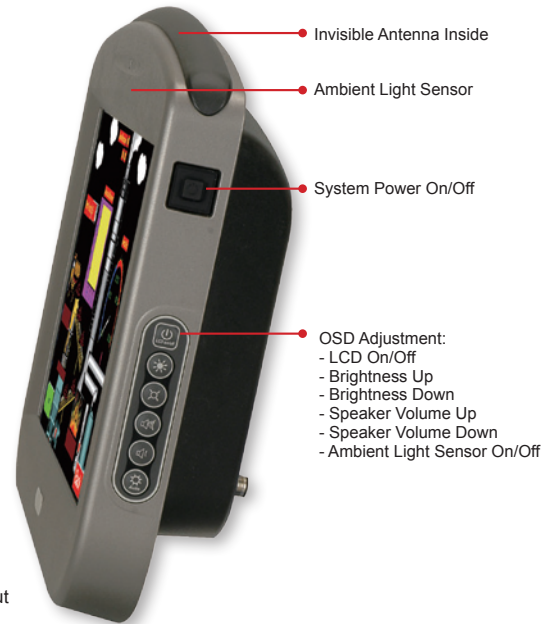
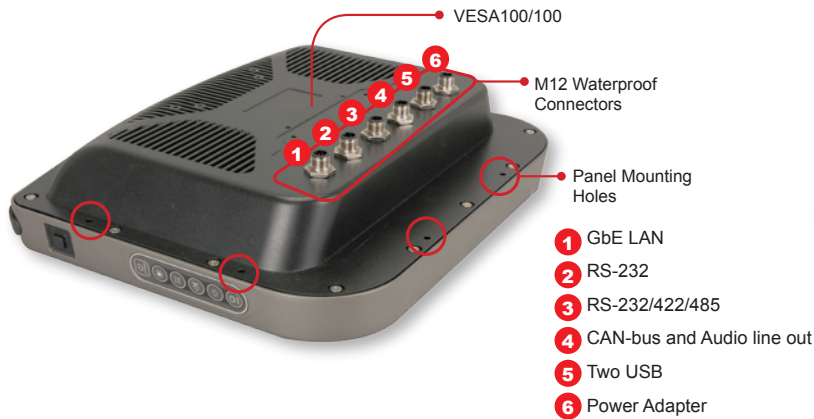
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Automation Panel Solutions

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Optional Peripherals

Fully Integrated I/O



Specifications



Model		SAILORPC-12A-N270	SAILORPC-12ASR-N270	
Display	LCD Size	12.1"		
	Max Resolution	1024 x 768		
	Brightness (cd/m ²)	500	1000	
	Contrast Ratio	700:1	700:1	
	LCD Color	16.2M	262K	
	Pixel Pitch (mm)	0.3075(H) x 0.3075(V)	0.240(H) x 0.240(V)	
	Viewing Angle (H-V)	160°/160°	130°/120°	
Motherboard	Backlight MTBF (hrs)	50000	60000	
	SBC Model	SAILORMB-ATOM-R10		
	CPU	Intel® Atom™ N270 1.6GHz CPU		
	Chipset	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	
I/O Ports and Switches	RAM	Supports one 400/533MHz DDR2 SO-DIMM(2GB Max.)		
	HDD Driver Bay	SSD	CF Type II	
		Expansion Slot	1 x Wireless LAN Module (802.11 b/g/n) (internal PCIe Mini card interface)	
			1 x 5-pin M12 connector for Power Adapter	
			1 x 8-pin M12 connector for two USB	
			1 x 5-pin M12 connector for CAN-bus and Audio line out	
Driver Bay	1 x 8-pin M12 connector for UART RS-232/422/485			
	1 x 8-pin M12 connector for UART RS-232			
Physical	1 x 8-pin M12 connector for GbE LAN			
	Construction Front Panel	Aluminum		
	Chassis Construction	Heavy-duty steel		
	Mounting	Panel, Rack, Stand and Arm VESA 100mm x 100mm		
	Front Panel Color	Silver (Pantone 8403C)		
	Dimensions (WxHxD) (mm)	345.3 x 300.4 x 77		
Environment	Net/Gross Weight	4.2 Kg / 5.3 Kg		
	Operation Temperature (°C)	-10°C ~50°C	-10°C ~50°C	
	Storage Temperature (°C)	-20°C ~70°C	-20°C ~70°C	
	Vibration	5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak		
Touch Screen	Shock	10G acceleration part to part (11ms)		
	Resistive Type 5-Wire with RS-232 interface			
Optional Power Supply	P/N: 63000-CLG60121C-RS - 60W Power Adapter - Input: 90VAC~264VAC, 50/60Hz - Output: 12VDC - M12 waterproof connector 5P			
Power Requirement	9~28VDC			
Front Panel Protection	IP 67 Compliant			
Power Consumption	33W		51W	
Certificate	Meets CE, FCC, CB, CCC, DNV			

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RISC-based Solutions

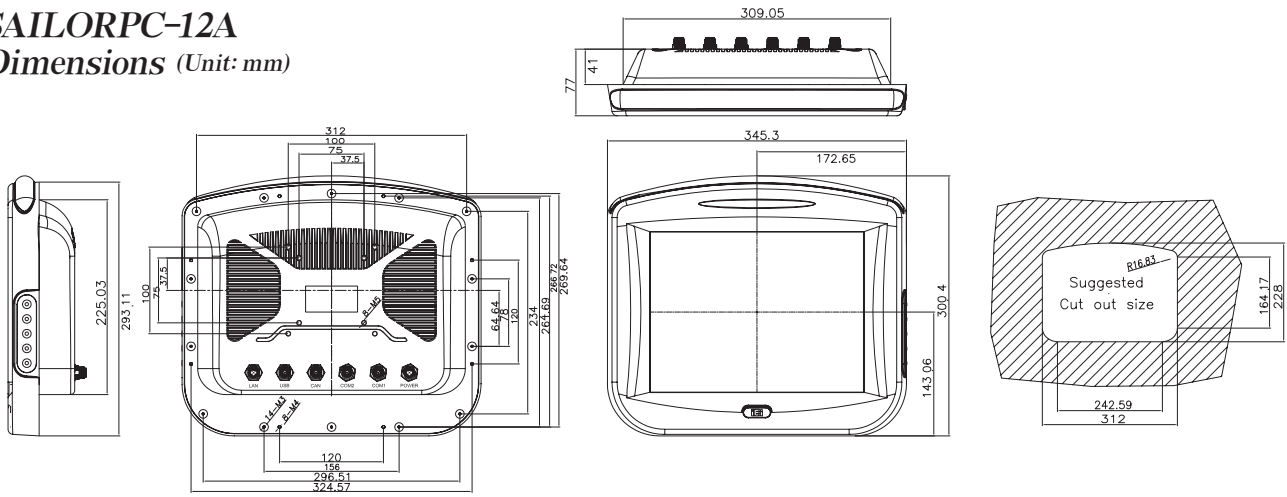
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PACSmate Medical Solutions

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Optional Peripherals

SAILORPC-12A
Dimensions (Unit: mm)



Ordering Information

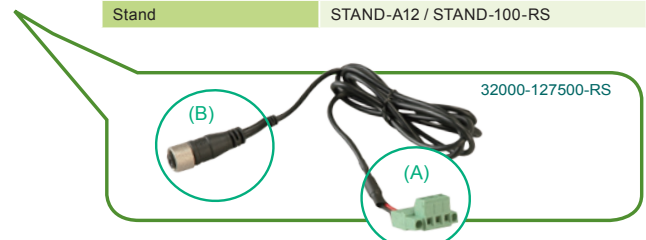
Brightness	OS	Part No.	Description
500 nits	CE 6.0	SAILORPC-12A/R/1/1-C6-R30	12.1" 500 cd/m ² IP 67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 1GB compact flash with Windows CE 6.0 operating system
		XPE	SAILORPC-12A/R/1/4-X-R30
	SAILORPC-12A/R/1/16-X-R30		12.1" 500 cd/m ² IP 67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with Windows XP Embedded operating system
	LINUX		SAILORPC-12A/R/1/4-L-R30
		SAILORPC-12A/R/1/16-L-R30	12.1" 500 cd/m ² IP 67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with LINUX operating system
1000 nits	CE 6.0	SAILORPC-12ASR/R/1/1-C6-R30	12.1" 1000 cd/m ² IP 67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 1GB compact flash with Windows CE 6.0 operating system
		XPE	SAILORPC-12ASR/R/1/4-X-R30
	SAILORPC-12ASR/R/1/16-X-R30		12.1" 1000 cd/m ² IP 67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with Windows XP Embedded operating system
	LINUX		SAILORPC-12ASR/R/1/4-L-R30
		SAILORPC-12ASR/R/1/16-L-R30	12.1" 1000 cd/m ² IP 67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with LINUX operating system

Packing List

Item	Part No.	Description
Panel mount screws pack	44013-030041-RS	
Power cable	32000-127500-RS	2000mm; 16AWG; (A) terminal block connector; (B) M12 Waterproof connector
Utilities CD	7B000-000087-RS	
Touch Pen	XTR104-0002-RS	
One Key Recovery CD		

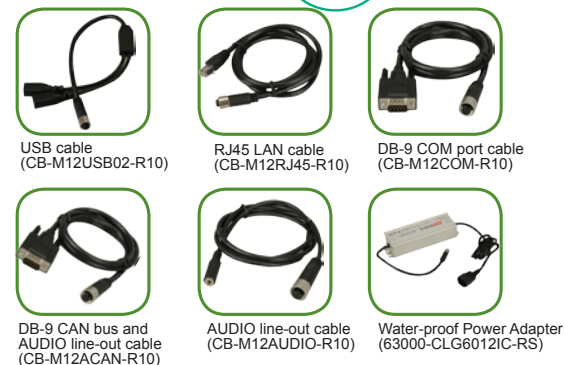
Options

Item	Part No.
Rack mounting kit	SAILORRK-12
ARM	ARM-11-RS / ARM-31-RS
Stand	STAND-A12 / STAND-100-RS



Optional cables and adapter

Item	Part No.
USB cable	CB-M12USB02-R10
RJ-45 LAN cable	CB-M12RJ45-R10
DB-9 COM port cable	CB-M12COM-R20
DB-9 CAN bus and AUDIO line-out cable	CB-M12ACAN-R20
AUDIO line-out cable	CB-M12AUDIO-R10
Water-proof power adapter	63000-CLG6012IC-RS



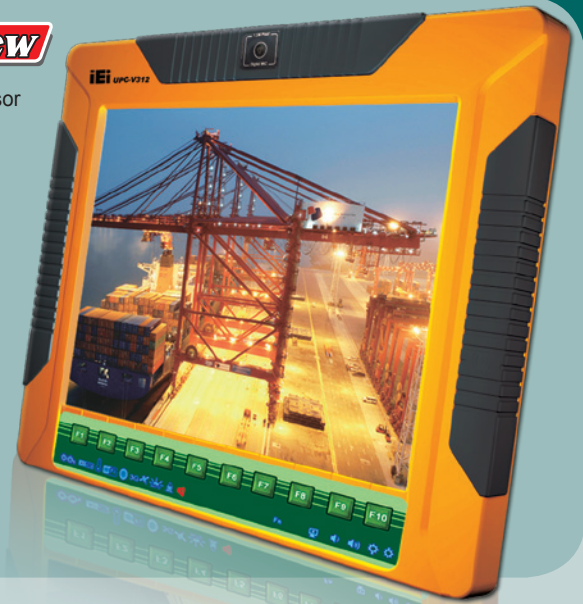
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UPC-V312-D525 12.1" Aluminum Rugged Panel PC

Features:

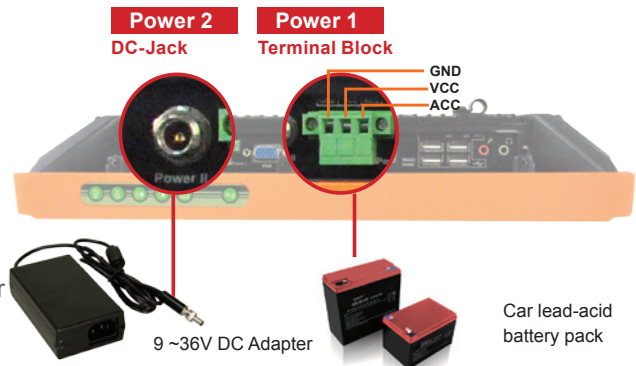
New

- Fully IP 65 compliant with fanless Intel® Atom™ D525 1.8GHz dual-core processor
- 12.1" 600 nits 1024 x 768 LCD with LED backlight
- TWIN-DC input, 9V ~ 36V and 10.5V ~ 36V, switch automatically
- Dual-band 2.4/5GHz Wi-Fi 802.11 a/b/g/n 3T3R MIMO design
- Reserved space for 3.75G / HSUPA USB module
- Optional GPS receiver
- Optional EM or Mifare RFID reader
- Optional Bluetooth module
- Built-in 1.3M pixels webcam with AF, AE and AWB capabilities
- CAN-bus interface with isolation
- F1 ~ F10 function keys which can be self-defined and user-friendly indicators
- Robust die-casting aluminum chassis



Redundant Dual DC Power Input

The UPC-V312-D525 is a system that supports redundant power. The redundant power input increases the reliability of the system while preventing data loss and system corruption from sudden power failure. When main power is unavailable or low voltage capacity is present, the system can switch to the second power input instantly and without interruption.



Power 1: Terminal block, voltage range: 9 ~ 36V
Power 2: DC jack, voltage range: 10.5 ~ 36V

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IEI Mobile Solutions

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Automation Panel Solutions

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Optional Peripherals

• ACC mode

Designed for vehicle systems, use Power 1 as the priority power

• Non ACC mode

Designed for non-vehicle systems, use Power 2 as the priority power

Connection Feasibility



Dual-Band 2.4/5GHZ Wi-Fi

Dual-band 2.4G/5G 802.11 a/b/g/n 3T3R MIMO design with up to 450 Mbps speed



3.75G HSUPA (optional)

Compared to Wi-Fi wireless network, 3.75G HSUPA has higher mobility with long-range mobile communication and no hotspot limitation. It is also able to connect to the Internet in real time.



Bluetooth V2.1+EDR (optional)

Connect peripheral devices with Bluetooth, such as earphone, scanner, etc.

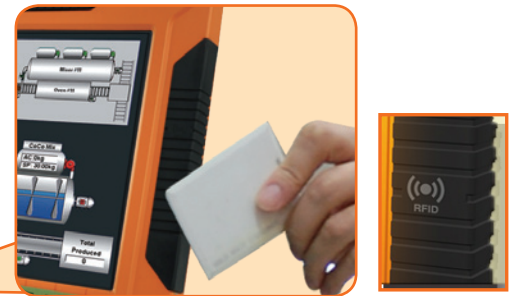


GPS (optional)

Travel navigation, real-time locating and path tracking

Variety of Antenna Layout

For the feasibility of wireless connection, we designed and installed almost all kinds of antenna without any signal interference and blocking. With the variety of use cases, we can still keep the IP 65 protection for the whole UPC set.



EM or Mifare RFID Reader (Optional)

RFID Specifications:
 Frequency: 125KHz or 13.56 MHz
 Reading distance: 5~7 cm
 Supports ISO1443A Mifare® or EM standard

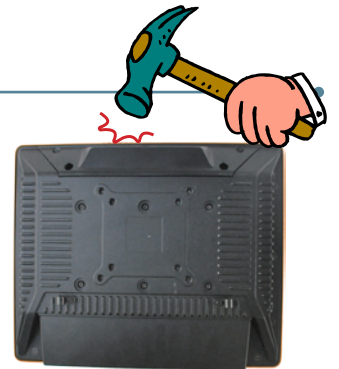
Rugged Design

- Enhanced VESA mount using M8 screws instead of standard M4 screws to ensure reliability.
- The ultra rugged metal chassis and the built-in SSD survive the continuous shocks and jolts of a forklift.
- Dust and water protection grade: IP 65 compliant
- Operating Temperature: -20°C~60°C



Robust Chassis

The robust die-casting aluminum chassis can fully seal and protect the product.



Water-proof Rubber Gaskets

The rubber gaskets fit perfectly to the cable size to provide waterproof protection.



Auto Dimming

- Built-in ambient light sensor provides comfortable viewing and power saving
- Auto detects the amount of light in the viewing environment and auto-adjusts the screen brightness
 - Low power consumption
 - Extend lamp and backlight lifetime



Super high brightness: 600
 High contrast : 700:1
 Wide viewing angle : 150(H)/130(V)

1.3 Megapixels Camera

Use the built-in 1.3 megapixels camera to capture image in real-time and send back to the control center immediately.



IR Remote Control

Control screen brightness, auto-dimming function, audio volume, LCD and system power remotely.



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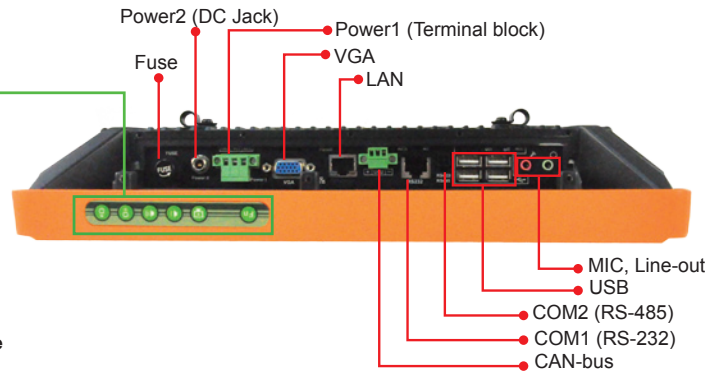
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Optional Peripherals

Function Keys



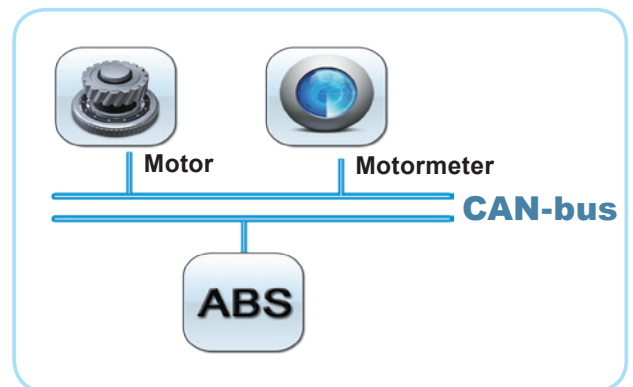
- | | |
|------------------------------|--|
| [Fn] Fn | [Fn] + [RFID] RFID enable / disable |
| [Backlight] Backlight On/Off | [Fn] + [Mute] Audio mute |
| [Audio -] Audio - | [Fn] + [Camera] Camera enable / disable |
| [Audio +] Audio + | [Fn] + [USB] Right side USB enable / disable |
| [Brightness -] Brightness - | [Fn] + [Power] Power on / off |
| [Brightness +] Brightness + | |



- F1 ~ F10 physical function keys launch a specific application.
- Cold blue LED shows the status of the system and other statuses such as CPU temperature alert and wireless connection. There is also Power1 and Power2 which display online power input status.

CAN-bus Interface with Isolation

The Control Area Network (CAN) is a serial bus system. The UPC-V312 on-board CAN controllers provide bus arbitration and error detection with an automatic transmission repeat function. This drastically reduces the chance of data loss, ensures system reliability, and is suitable for networking intelligent I/O devices such as sensors or actuator of machines or plants



1. Isolated protection voltage 2500V/min DC protection
2. Typical transient immunity 50 kV/ms ESD protection

Applications



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IEI Mobile Solutions

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Optional Peripherals

Specifications

Model Name		UPC-V312-D525-R10
Display	LCD Size	12.1"
	Max Resolution	1024(W) x 768(H)
	Brightness (cd/m ²)	600
	Contrast Ratio	700:1
	LCD Color	16.2M
	Pixel Pitch (mm) (HxV)	0.24(H) x 0.24(V)
	Viewing Angle (V/H)	150° / 130°
	Backlight MTBF (hrs)	50000
Motherboard	SBC	UPC-12AT-D525-R10
	CPU	Intel® Atom™ D525 1.8GHz dual-core processor
	Chipset	Intel® ICH8M
	RAM	On-board 1G DDR3 SO-DIMM (System Max. 1GB)
I/O Ports and Switches	RS-422/485 (4-pin box header)	
	RS-232 (DB-9 connector)	
	CAN-bus (3-pin terminal block)	
	GbE LAN (RJ-45 connector)	
	4 x USB connector	
	Audio jack (Line-out, Mic)	
	VGA port (DB-15 connector)	
	DC-IN 1 (terminal block) / DC-IN 2 (DC Jack)	
	Reset button	
	AT/ATX switch	
	Driver Bay	HDD Drive Bay
SSD		CF Type II socket / mSATA (optional)
CD-ROM Drive Bay		N/A

Physical	Construction Front Panel	Aluminum Die-Casting
	Chassis Construction	Extruded Aluminum Alloy
	Mounting	VESA 100mm x 100mm and 75mm x 75mm with M8 screws
	Front Panel Color	Orange (Paintone 151C)
	Dimensions (WxHxD) (mm)	338.5 x 276.25 x 62.86
	Cut Out Dimensions (WxH) (mm)	338.5 x 276.25
	Net / Gross Weight	4.5 kg/ 6.8 kg
	Expansion Slot	PCIe Mini slot for Wi-Fi PCIe Mini slot for mSATA (Optional)
System Cooling	Fanless	
Environment	Operating Temperature	-20°C~60°C
	Storage Temperature	-40°C~85°C
	Vibration	MIL-STD-810F 514.5C-2 (with CF card or SSD)
	Shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis
	IP Level	Full IP 65
	Safety & EMC	CE / FCC
Power	Adapter	65W power adapter Input: 90VAC~264VAC, 50/60Hz, Output: 19V DC
	Requirement	Power 1: 9 (+/-0.3)~36V Power 2: 10.5 (+/-0.3)~36V
	Consumption	52W

Ordering Information

Part No.	Description
UPC-V312-D525/R-EM/1G-R10	12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz, 802.11a/b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, 1GB DDR3 RAM, EM card reader, R10
UPC-V312-D525/R-MF/1G-R10	12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz, 802.11a/b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, 1GB DDR3 RAM, Mifare card reader, R10
UPC-V312-D525/R/1G-R10	12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz, 802.11a/b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, 1GB DDR3 RAM, R10

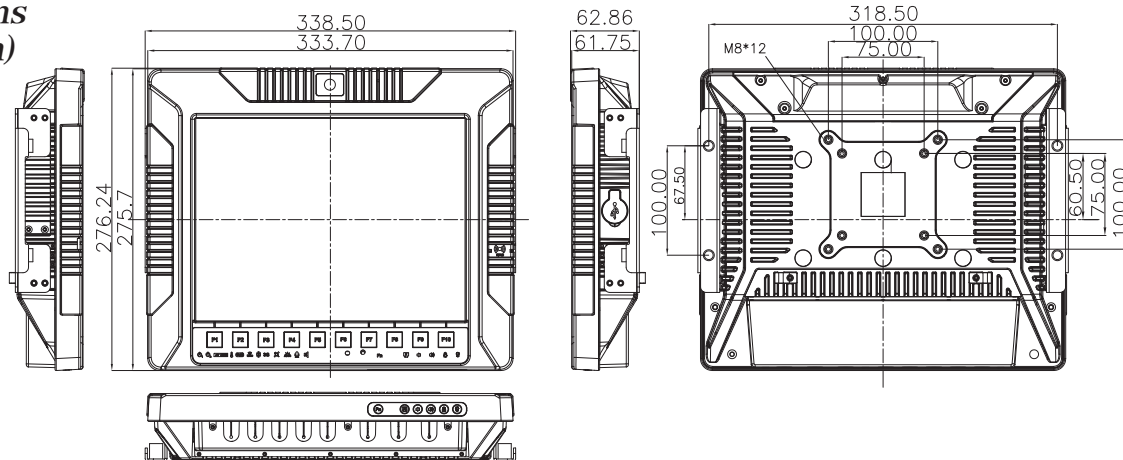
Options

Item	P/N
ARM	ARM-11-RS/ARM-31-RS
Wall Mounting Kit	AFLWK-19/ AFLWK-19B/ AFLWK-12
Stand	STAND-A19/STAND-B19/STAND-210-R11
GPS Module Kit	UPC-GPS-KIT01-R10
Bluetooth Module Kit	UPC-BT-KIT01-R10
OS: Win CE 6.0 (128MB CF Card)	UPCCF-V312-D525-CE060-128M-R10
OS: Win XPE (2GB CF Card)	UPCCF-V312-D525-XPE-2G-R10
OS: Win XPE (4GB CF Card)	UPCCF-V312-D525-XPE-4G-R10
OS: Linux (2GB CF Card)	UPCCF-V312-D525-LNX-2G-R10
OS: Win 7 Embedded (4GB CF Card)	UPCCF-V312-D525-WES7E-4G-R10

Packing List

Item	P/N	Q'ty
Utility CD	7B000-000741-RS	1
One Key Recovery CD		1
IR Remote Controller	72000-SLPCB005-RS	1
RJ-45 to DB-9 COM Port Cable	32005-000200-200-RS	1
M8 Screw	44325-080081-RS	8
M4 Screw	44005-040082-RS	8
Mounting Bracket	41003-0382C2-00-RS	2
Screw Driver	45019-001004-00	1
Power Adapter	63040-010065-010-RS	1
Power Cord (European Standard)	32702-000401-100-RS	1
RS-422 Cable	32205-002400-100-RS	1
Power Transfer Cord	32702-000300-100-RS	1
M8 to M4 Screw	44300-040061-RS	8

Dimensions (Unit: mm)



UPC-12A 12.1" Aluminum UPS Panel PC with Smart Battery Backup

Rugged Aluminum Die-casting Body!

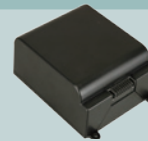
UPC-12A, a revolutionary model featuring smart battery technology, which allows users to monitor and manage battery status directly through IEI's unique user interface. The UPC-12A boasts a 12.1-inch XGA LCD screen with sunlight-readable 1000 nits options. The UPC-12A series comes equipped with battery pack for emergency power when the main power source is not available. This eliminates the risk of the system suddenly losing power and allows flexible integration into a wide variety of applications.

Features:

- 12.1" all-in-one PPC with touch technology
- 1000 nits sunlight readable panel available
- Powerful all-in-one panel PC
 - Intel® GM45 chipset and 45nm mobile Core™2 Duo processor support
- Battery backup power protects your productivity from the constant threat of power outages and loss data
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
 - (0%~100% brightness control for sunlight readable version)
- 802.11 b/g/n Wi-Fi support
- PCI expansion slot for adding more capacity (optional PCI express expansion interface)
- Standard VESA 75/100 mounting
- Robust die-cast aluminum chassis
- IP 65 compliant aluminum compliant front panel



Waterproof USB Cover



Smart battery backup provides emergency power (14.8V, 3800 mAh)

Smart Battery Wireless 802.11 b/g/n Sunlight Readable Touch Screen PCI/PCIE Expansion One Key Recovery (F3) IEI symantec

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- 5 Optional Peripherals

UPS Panel PC Applications

- Provides temporary power after a power failure has occurred.
- Continues to provide stable power to equipment during line sags & spikes.
- Absorbs power surges & transients.
- Smooths out noisy power sources.

A. Mobile System Solution

Provides backup power to data sensitive mobile equipment, charging and battery replacement of the primary power source without shutting down the terminal.



B. Power Bank Solution

Acts as a power input regulator to prevent unstable power input damage and protect against unexpected power loss.



C. Other Relative Applications

Production Line



Blue Screen



With UPS Protection

The IEI Smart Battery is automatically enabled in the event of power failure and provides stable power so the operator can save important system parameter.



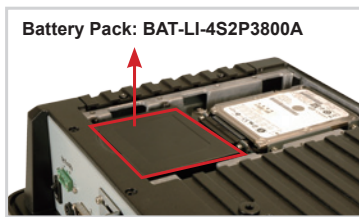
Without UPS Protection

System shuts down or hangs suddenly and all data is lost, because no backup power is available.

Smart Battery Backup

Protect your productivity from power outages and data lost

1. Rechargeable Battery



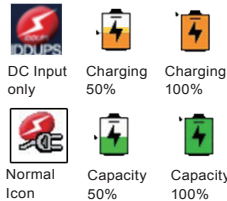
The UPC series is equipped with rechargeable "smart battery" which can supply voltage to systems for up to 60 minutes without any external power supply.

Platform	Smart Battery Run-time
Intel@GM45	40 mins

2. Battery Monitoring Utility



- Battery detection
- Battery capacity status
- Battery charge
- DC Input Indicator
- Battery Indicator
- Temperature warning
- Low battery alarm
- Connection port status



3. Temporary Mobile System



UPC Battery Mode



Under battery mode, the UPC system can boot by power switch while the UPS battery supplies main power to the unit as a temporary mobile system.

Protection

Automatic self-test	Battery self-test ensures early detection of a battery that needs to be replaced.
Back Up Power	Back-UPS instantly switches your computer to emergency battery backup power and allows you to work through brief power outages

Convenience

Audible Alarms	Proactively notifies you of changing battery under 10% capacity.
Automatic self-test	User friendly graphical interface.

Manageability

Software	This ensures real time monitoring and networking remote management Network based power management Internet ready monitoring
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Manageability

LAN CONFIGURATION

- LAN shows system IP address information



AUPS STATUS

- STATUS shows DC / battery power input detection



DC Input detection

Battery status detection

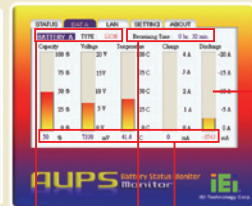
ABOUT

- Shows AUPS utility information



BATTERY STATUS

- BAT.A shows battery status real time monitoring



Battery type

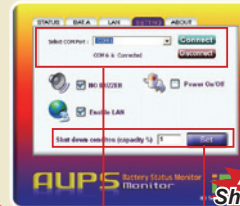
Battery usage remaining time

Real time information updating

Battery capacity bar

SETTING

- SETTING shows connection detection port



Auto-scan connection port

System shuts down condition by battery capacity setting

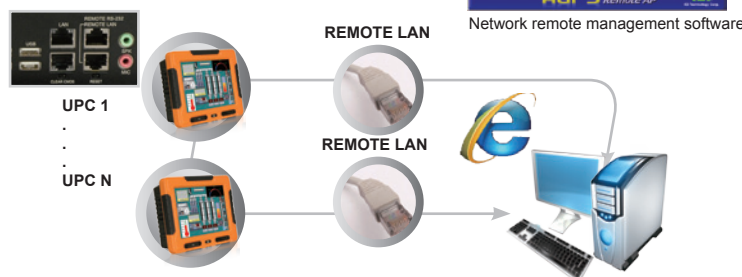


Network Based Power Management and Monitoring

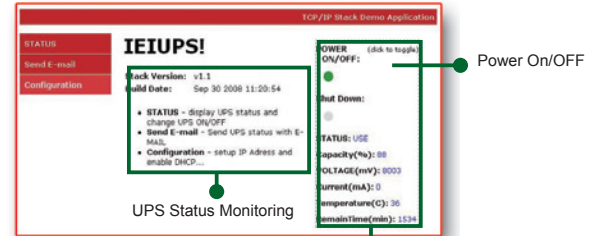
The UPC series comes with a smart battery software utility program for users to monitor battery status and remotely control system power on/off from anywhere and anytime through the network. Remote management software allows users to select static IP or DHCP for remote management.

Multiple Systems Power Control

The remote management software utility and application program allows users to easily get the status of the UPC and to control the UPC power functions from anywhere with an Internet connection.



UPC Network Remote Management Battery Capacity Status



Email Status Report



Remote control DC output ON/OFF via web interface.

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Powerful Computing

The powerful UPC-12A is designed for embedded performance grade applications. Featuring an Intel® GM45/910GMLE chipset, the UPC-12A provides total compatibility in a wide variety of high performance and low power industrial control applications.

Intel® GM45

The UPC-xxA series comes integrated with 45nm next generation Intel® Core™2 Duo processor family (Penryn) which extends leadership in performance and energy efficiency for low power embedded applications.

Performance Leadership

- Penryn on 45nm process
- Large L2 Cache and Faster FSB (6M, 1066MHz)

Increased Integration

- Support for High Definition Decoder in H/W

Format	Decoding Stage	GME965	GM45
MPEG2 (DVD)	HW Motion Comp	v	v
	Inverse DC Transform	v	v
	Variable Length Decode	v	v
VC-1 (WMV9)	HW Motion Comp + In Loop Deblocking	v	v
	Inverse Transform		v
	Variable Length Decode		v
AVC (H.264) (HD DVD)	HW Motion Comp + In Loop Deblocking	v	v
	Inverse Transform		v
	Variable Length Decode		v

For performance-oriented users, socket type allows customers to easily upgrade processors from Celeron® M 2.0GHz to Core™2 Extreme 2.53GHz.

Package Type	Brand Name	Code Name	CPU No.	Clock Speed	FSB (MHz)	L2	TDP	Chipset
Socket P	45nm	Core™2 Extreme	QX9300	2.53G	1066	12M	45W	GM45
			X9100	3.06G		6M	44W	
		Core™2 Quad	Q9100	2.26G		12M	45W	
			Q9000	2.0G		6M	45W	
			Penryn (Montevina)	T9900 (PGA/BGA)		3.06G	6M	
		T9800 (PGA/BGA)		2.93G		6M	35W	
		T9600 (PGA/BGA)		2.8G		6M	35W	
		T9550 (PGA/BGA)		2.66G		6M	35W	
		T9400 (PGA/BGA)		2.53G		6M	35W	
		P9600 (PGA/BGA)		2.66G		6M	25W	
	P9500	2.53G		6M	25W			
	65nm	Core™2 Duo	P8800 (PGA/BGA)	2.66G	3M	25W		
			P8700 (PGA/BGA)	2.53G	3M	25W		
			P8600 (PGA/BGA)	2.4G	3M	25W		
			P8400 (PGA/BGA)	2.26G	3M	25W		
			Core™2 Extreme	X9000	2.8G	6M	44W	
		Penryn (Santa Rosa Refresh)		T9500 (PGA/BGA)	2.6G	6M	35W	
				T9300 (PGA/BGA)	2.5G	6M	35W	
				T8300 (PGA/BGA)	2.4G	3M	35W	
		Core™2 Duo		T8100 (PGA/BGA)	2.1G	3M	35W	
Meron (Santa Rosa)			T7500 (PGA/BGA)	2.2G	4M	35W		
	Celeron®	Meron (Montevina)	575	2.0G	667	1M	31W	



Military Application:

- Powerful PC with super high brightness LCD Screens for demanding military applications
- Touch screen capability
- Integrated Intel® Core 2™ Duo CPU with high performance graphics speeds up to 533 MHz improve graphics and 3D rendering performance, enable high-definition video playback. for graphic intensive applications (i.e. mapping, simulation)

Selectable AT/ATX Power Mode



Convenient External Switch in the Rear

• AT Power Mode

The AT power option allows multiple systems to be powered on directly by turning on the power supply. A room of computers can be controlled by a central power switch, so all systems are turned on and off by a central switch. This power mode is best suited for multiple computers where constant connectivity is not necessary, as the computers cannot be accessed or turned on remotely.

UPC switch settings

BATT / UPS **AT / ATX**

Benefits:

- Automatic start when power connected



• ATX Power Mode

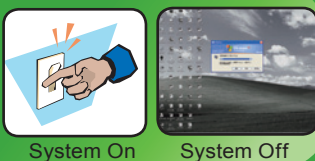
The ATX power option allows systems to be powered on and off remotely over a network. Systems must be plugged in all the time, but they can be turned on from a "soft-off" using software that sends the appropriate signal over the network connections. Individual PCs can be turned on at the same time. The always-on ability allows complete remote administration, reducing technician visits to only when there are hardware issues.

UPC switch settings

BATT / UPS **AT / ATX**

Benefits:

- Power Management: Turn the system to standby mode to save power when the PPC is not used.
- Remote Control: The standby function on the ATX mode power supply allows the PPC to be turned on/off remotely via network.



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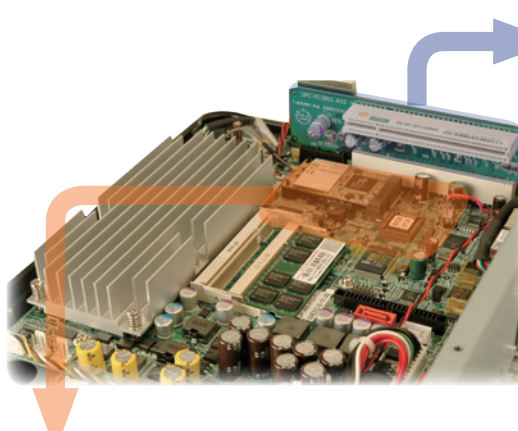
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Optional Peripherals

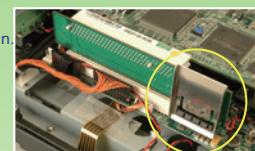
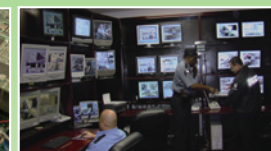


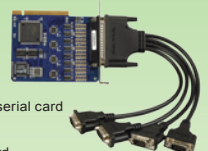

Flexible Expansion Interface

The UPC series provides many expansion interfaces including one standard 32-bit PCI slot for various PCI add-on cards, and one PCIe Mini card socket for a small form factor extender such as a wireless module.



1. PCI/Optional PCIe x1 Expansion Slot

Anti-vibration Riser
Tightly secured riser card design.

• PCI Riser

• PCIe x1 card

• PCI serial card

• PCI e x1 Riser (Optional)

• PCI interface Capture Card

2. PCIe Mini slot for 802.11b/g/n wireless module

The UPC series features high speed Wi-Fi IEEE 802.11 n protocol which builds on previous 802.11 standards by adding a multiple-input multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve the system performance. The 40 MHz operation uses wider bands, compared to 20 MHz bands in previous 802.11 operation, to support higher data rates. Wider bandwidth channels are cost effective and easily accomplished with moderate increases in digital signal processing.



27 times faster data transfer rate compared to 802.11b

Protocol	Freq. (GHz)	Thru. (Mbit/s)	Data (Mbit/s)	Range indoor (m)	Range outdoor (m)
802.11 a	5 GHz	23	54 Mbit/s	~35	~120
802.11 b	2.4 GHz	4.3	11 Mbit/s	~38	~140
802.11 g	2.4 GHz	19	54 Mbit/s	~38	~140
802.11 n	5 GHz and/ or 2.4 GHz	74	300 Mbit/s (2 streams)	~70	~250



The UPC System Features

- Invisible antenna delivers 802.11n wireless network connectivity
- Wireless IEEE 802.11 b/g/n module with PCI Express Mini-Card interface

Sunlight Readable



• 1000 nits Super High Brightness

The UPC-12AH series has greatly improved luminance through edge lighting

• Low Reflection through AR (Anti-Reflection) Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. The UPC-12AH sunlight readable model offers special AR (anti-reflection) surface treatment to prevent reflection, which ensures excellent visibility in daylight conditions.

Super high brightness: 1000 nits
High contrast: 700:1
Wide viewing angle: 60/60 (R/L) 45/75 (U/D)

Ambient Light Sensor

Advanced Deep Dimming to Black!

Night
For power saving and navigation safety

Day
1000 nits Sunlight Readable

Ambient Light Sensor provides Comfortable Viewing and Power Saving

Auto-detects the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

- Avoid eye strain for more comfortable viewing
- Power saving
- Extended lamp lifetime
- Extended backlight life

Note: Fully Dimmable Controls (for UPC-xxAH model)

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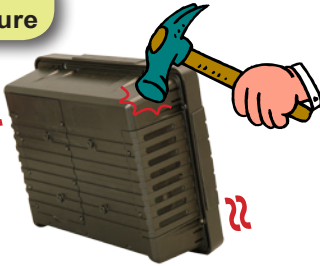
Optional Peripherals

F. Rugged Design

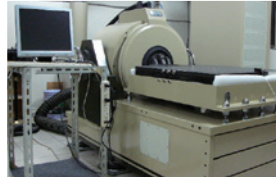
The UPC series has an ultra-rugged design that can survive the continuous shocks and jolts of a forklift. Engineered with a tough, anti-vibration and IP 65 front panel dust and water rating.

Robust Die-Cast Aluminum Enclosure

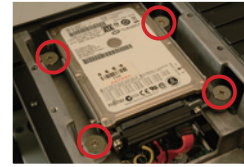
A rugged die-cast aluminum enclosure eliminates the need for a fan as heat dissipation minimizes the troublesome overheating problem.



Rigorous Shock/Vibration Test



Compliant with MIL-STD-810F shock and vibration protection, as well as offering IP 65 water and dust proof front panel protection.



HDD install with anti-shock buffer rubber enhances protection performance.

Dismantleable Fan Module for Easy Maintenance



Applications

1. Lift Truck PPC

Lift truck mounted with UPC-12A. Just as with barcode scanners, enable real-time data collection which allows operators to accomplish traditional warehouse tasks faster thus reducing labor costs.



We Offer:

- 9~28V DC Input for Mobile Application.
- Wi-Fi 802.11 b/g/n 802.11b/g Wi-Fi, which gives you up to broadband-speed browsing and connectivity while moving, compared to traditional wired LAN. Wireless connectivity frees without hinders worker movement and increases productivity.



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Optional Peripherals

2. Power Bank

We Offer:

- Redundant Power Protection
As a redundant power supply, in the event of the main power source failing or running out, the UPC unit is able to power the load for greater reliability.
- Wide Range 9V~28VDC Input
The UPC series provides wide range +9~+28VDC power input for regulator function to prevent unstable power input damage, also avoid unexpecte power lost.
- Rechargeable temporary battery pack
- Provides up to 60 minuets uninterrupted operation time for external battery change or relocation data back up.
- Reduce risk of losing valuable data with continuous system operation
- VESA Compliance Easy to Employ



Full I/O and User Friendly Interface



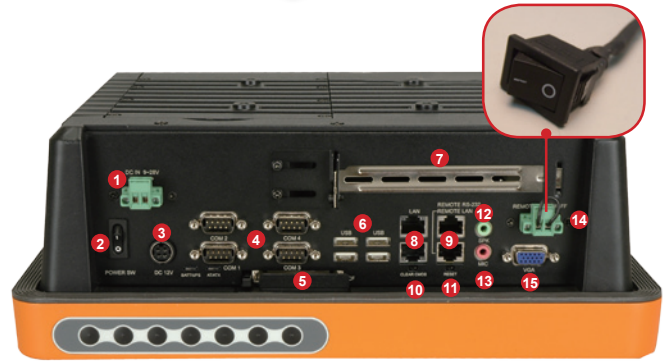
● **LED Indicator**
(Power LED/HDD Status/Charging/Discharging/Light Sensor)



● **Membrane Keypad Control**
LCD On/Off; Brightness Up/Down; Volume Up/Down; Auto Dimming On/Off; Battery Low Beeper (under 10% batter capacity beeper on/off)

● **Waterproof Front USB**

Designed for industrial use, UPC waterproof front USB cover is based around a standard USB interface, with USB Ver.2 performance offering data transfer up to 480Mbps.



- 1 9-28VDC Input
- 2 Power Switch
- 3 DC 12V Power Jack
- 4 3 x RS-232 COM, 1 x RS-232/422/485 COM
- 5 User-accessible CF
- 6 4 x USB2.0
- 7 1 x PCI Expansion Slot (Optional PCIe x1 expansion)
- 8 2 x RJ-45 Giga LAN
- 9 Remote RS-232, Remote LAN
- 10 Clear CMOS
- 11 Reset
- 12 Line-out
- 13 Mic-in
- 14 AT Mode UPS Switch
- 15 VGA Output

Specifications

Model		12.1" Regular Brightness	12.1" Sunlight Readable
		UPC-12A/GM45	UPC-12AH/GM45
Display	LCD Size	12.1"	12.1"
	Max Resolution	1024 x 768	1024 x 768
	Brightness (cd/m ²)	450	1000
	Contrast Ratio	700:1	500:1
	LCD Color	262k	262k
	Pixel Pitch (mm)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)
	Viewing Angle (H-V)	150° / 150°	120° / 120°
	Backlight MTBF	50000hrs	50000hrs
Motherboard	CPU	Intel® Core™2 Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz Intel® Core™2 Duo T9400 2.53GHz	Intel® Core™2 Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz Intel® Core™2 Duo T9400 2.53GHz
	Chipset	Intel® GM45 Chipset + ICH9M	Intel® GM45 Chipset + ICH9M
	RAM	two DDR2 SO-DIMM Up to 4GB	
I/O		3 x RS-232 COM 1 x RS-232/422/485 COM 2 x RJ-45 Giga LAN 6 x USB 2.0 (2 waterproof USBs in front of the panel) 1 x VGA 1 x Power Switch 2 x Audio Jack (Line-out, Mic-in) 1 x Reset Button	1 x COM Clear Button 1 x 9-28VDC Power Jack 1 x Power Mode Switch (Battery or DC input) 1 x 9-28VDC Power Input Terminal Block 1 x Networking UPS Management Port by RJ-45 Ethernet 1 x Remote COM port by RJ-45 connector 1 x AT Mode UPS Switch (2 pin terminal block)
	Expansion	1 x PCI, 1 x PCIe x1 (Optional), 1 x PCIe Mini (Wireless LAN Module)	
LED Indicator	Power LED / HDD Status / Charging / Discharging / Light Sensor		
Membrane Keypad	LCD On/Off; Brightness Up/Down; Volume Up/Down; Auto Dimming On/Off; Battery Low Beeper (under 10% batter capacity beeper on/off)		
Drive Bay	SSD	CF Type II	
	HDD	1 x 2.5" SATA HDD bay	
Battery	Capacity	14.8V, 3800 mAh	
	UPS run-time	40 mins	40 mins
		50 mins	30 mins
	40 mins	40 mins	
Physical	Construction Material	Aluminum Die-casting	
	Mounting	VESA 100 mm x100 mm	
	Front Panel Color	Orange (Pantone 151C)	
	Dimensions (WxHxD) (mm)	335 x 280 x 119	
Environment	Operation Temperature (°C)	-10°C~55°C	
	Storage Temperature (°C)	-20°C~70°C	
	Net/Gross Weight	5.8 Kg / 6.9 Kg	
	IP Level	IP 65 Compliant front panel	
Safety & EMC	CE / FCC / CCC / CB		
Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board)		
Power Requirement	9-28VDC		
Power Consumption		63W	73W
		60W	70W
		65W	74W

*note: Battery normal operating temperature 0°C~45°C

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IEI Mobile Solutions

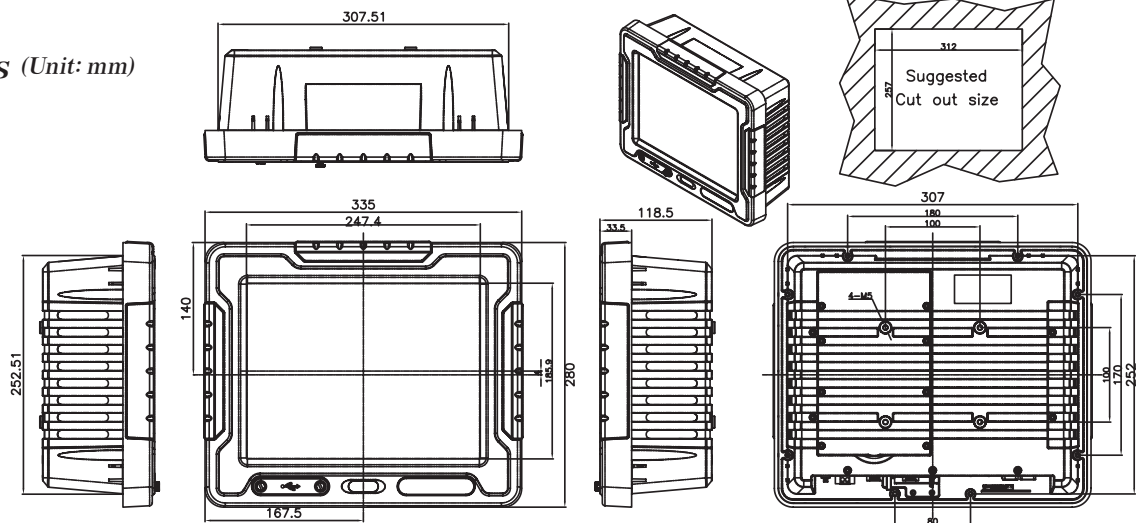
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Optional Peripherals

UPC-12A Dimensions (Unit: mm)

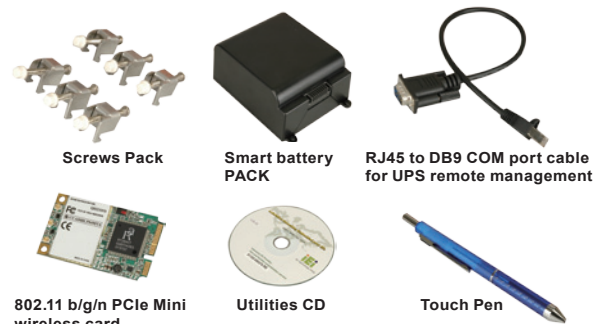


Options

Model	UPC-12A-910	UPC-12A-GM45	UPC-12AH-GM45
Panel mounting kit		UPCPK-12	
Wall mounting kit		AFLWK-19	
Rack mounting kit		UPCRK-12	
ARM		ARM-11-RS / ARM-31-RS	
Stand		STAND-A19 / STAND-B19 / STAND-210-R11	
OS: Win CE 6.0	UPCCF-12-910-CE060-R20	N/A	N/A
OS: Win XPE	UPCCF-12-910-XPE-R20	UPCCF-12-GM45-XPE-R20	UPCCF-12-GM45-XPE-R20
Battery Pack		BAT-LI-4S2P3800A (14.8V, 3800mAH)	
PCIe x 1 Riser Card		034D335-00-100-RS	

Packing List

Item	Part No.	Q'ty	Specifications
Screws Pack	44003-050501-RS	4	M5; 5mm
RJ45 to DB9 COM port cable	32000-089201-RS	1	
Power Adpater	63040-010096-010-RS	1	90~264V AC; 12V DC; 96W
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utilities CD	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	-
Wi-Fi 802.11 b/g/n PCIe Mini card	7F900-Q802XKN-RS		
Smart battery pack	BAT-LI-4S2P3800A		Lithium ion Battery 4S2P, 3800mAh, FOR UPC Series
One Key Recovery CD		1	



Note: Connect DC input continuously. Battery will be drained after 14 hours.

Ordering Information

Part No.	Description
450 nits	UPC-12A/GM45-CM575/WT-R/1GB-R20 12.1" 450cd/m ² XGA panel PC with Intel® Celeron® M 575 2GHz CPU , 100W UPS with 14.8V, 3800mAH, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12A/GM45-P8400/WT-R/2GB-R20 12.1" 450cd/m ² XGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 100W UPS with 14.8V, 3800mAH, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12A/GM45-T9400/WT-R/2GB-R20 12.1" 450cd/m ² XGA panel PC with Intel® Core™2 Duo T9400 2.53GHz CPU, 100W UPS with 14.8V, 3800mAH, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
1000 nits	UPC-12AH/GM45-CM575/WT-R/1GB-R11 12.1" 1000 cd/m ² XGA panel PC with Intel® Celeron® M 575 2GHz CPU , 100W UPS with 14.8V, 3800mAH, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12AH/GM45-P8400/WT-R/2GB-R11 12.1" 1000 cd/m ² XGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 100W UPS with 14.8V, 3800mAH,2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12AH/GM45-T9400/WT-R/2GB-R11 12.1" 1000 cd/m ² XGA panel PC with Intel® Core™2 Duo T7500 2.2GHz CPU, 100W UPS with 14.8V, 3800mAH, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless

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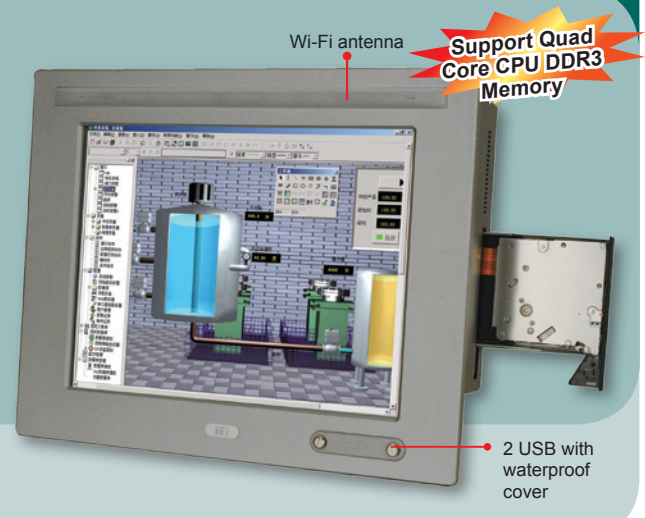
Optional Peripherals

WIDS-515A/517A

15"/17" Wireless Panel PC

Features

- 15" and 17" wireless panel PC with touchscreen
- Embedded PIFA antenna and built-in Mini PCIe 802.11b/g/n interface wireless module
- Powered by high performance Intel® Core™2 Extreme/Quad/Duo and Celeron® processor supports up to 1333MHz FSB with Intel® G41 chipset
- System memory supports dual-channel DDR3 DIMM up to 4 GB
- Offers one expansion slot for PCI or PCIe x1 add-on cards
- Dual gigabit Ethernet
- Heavy-duty design with anti-rust chassis with aluminum IP 65 compliant front panel



Quad Core
DDR3 1066
Wireless 802.11 b/g/n
PCI/PCIe Expansion
F3 One Key Recovery

802.11 b/g/n Ready with Invisible Wi-Fi Antenna

WIDS wireless technology utilizes the most efficient antenna type available on the market-PIFA (Planar Inverted-F Antenna). This particular antenna creates an exceptionally uniform 3D signal sphere through its inverted-F design, which generates an omni-directional signal field.



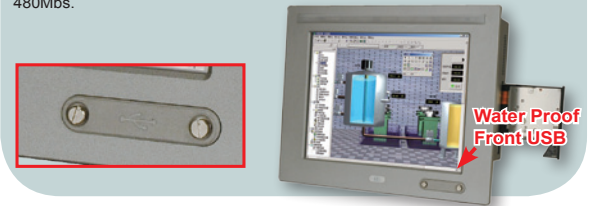
Protocol	Freq.	Thru.	Data	Range indoor	Range outdoor
802.11	(GHz)	(Mbit/s)	(Mbit/s)	(m)	(m)
a	5 GHz	23	54 Mbit/s	~35	~120
b	2.4 GHz	4.3	11 Mbit/s	~38	~140
g	2.4 GHz	19	54 Mbit/s	~38	~140
n	5 GHz and/or 2.4 GHz	74	300 Mbit/s (2 streams)	~70	~250

IP 65 Security Front USB Port

Front USB function switch allows user to enable or disable the front USB port function. Depending on application and security demands, the system administrator can choose whether or not to activate the front USB port.

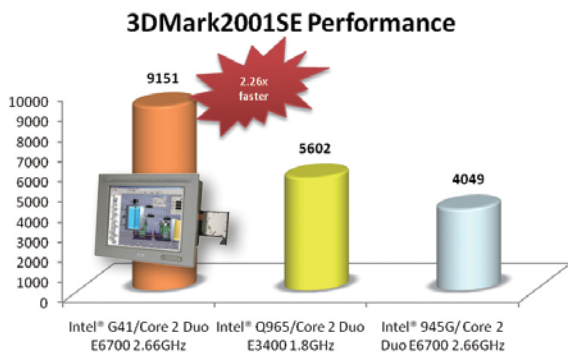


Designed for industrial use, WIDS waterproof front USB cover is based on the standard USB interface, with USB Ver.2 performance offering data transfer up to 480Mbps.



The Best Performance with Socket LGA 775

Excellent graphic performance compared to the Q965/945G chipset



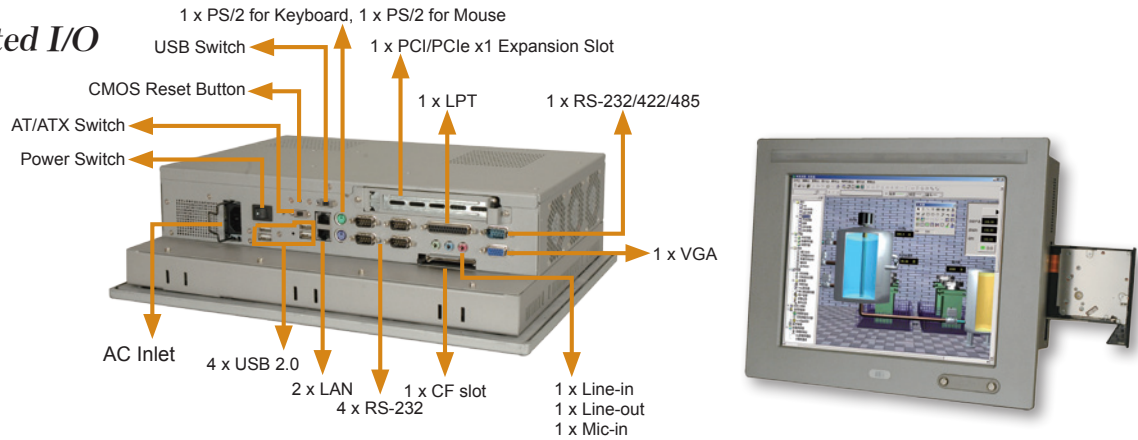
Wireless KIOSK Panel PC



Wireless Rack Mount Panel PC

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Fully Integrated I/O



Specifications

Model	15" Wireless Panel PC		17" Wireless Panel PC	
	WIDS-515A-945G	WIDS-515A-G41	WIDS-517A-945G	WIDS-517A-G41
Display	LCD Size	15"		17"
	Max Resolution	1024(W) x 768(H)		1280(W) x 1024(H)
	Brightness (cd/m ²)	350		300
	Contrast Ratio	700:1		800 : 1
	LCD Color	16.2M		16.7M
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)		0.264(H) x 0.264(V)
	Viewing Angle (V/H)	125°/ 140°		160°/160°
	Backlight MTBF (hrs)	50000		50000
Motherboard	SBC	POS-9455	POS-G41	POS-9455
	CPU	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz
	Chipset	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® 945G + ICH7R
	RAM	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	2 x 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules for up to 4GB
I/O Ports and Switches	4 x RS-232 1 x RS-232/422/485 2 x RJ-45 for LAN Port 6 x USB 2.0 (2 waterproof USB in front of the panel) 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in		2 x PS/2 mouse and keyboard interface 1 x LPT Power Switch AT / ATX Switch CMOS reset button Front USB switch	
Drive Bay	HDD Driver Bay	1 x 2.5 SATA/IDE HDD bay with anti-shock		
	SSD	CF Type II		
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay		
Wireless	Wireless 802.11 b/g/n module (PCIe Mini interface)			
Expansion Slot	Either 1 x PCI or PClex1 expansion slot (PCI riser card built-in, optional PClex1 riser card)		Either 1 x PCI or PClex1 expansion slot (PCI riser card built-in, optional PClex1 riser card)	
	1 x PCIe Mini card		1 x PCIe Mini card	
Physical	Construction Front Panel	Aluminum Die-casting		
	Chassis Construction	Heavy-duty Steel (SECC)		
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
	Front Panel Color	Silver (Pantone 8001C)		
	Dimensions (WxHxD) (mm)	410 x 329 x 124	410 x 329 x 124	451 x 375 x 123
	Cut Out Dimensions (WxH) (mm)	386 x 305	386 x 305	424 x 350
	Net Gross Weight	7 Kg / 11 Kg	7 Kg / 11 Kg	8 Kg / 12 Kg
Environment	Operation Temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock	10G acceleration part to part (11ms)		
Touch Screen	Resistive Type 5-Wire with RS-232 interface			
Power Supply	AC Input	P/N: 63000-ACEA618APPC-RS -180W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@14A, -12V@0.5A	P/N: ACE-A622A-RS-R11 - 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A	P/N: 63000-ACEA622APPC-RS - 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	P/N: ACE-4520C-RS, 200W power supply Input: 24 VDC(18~36 VDC), Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A		

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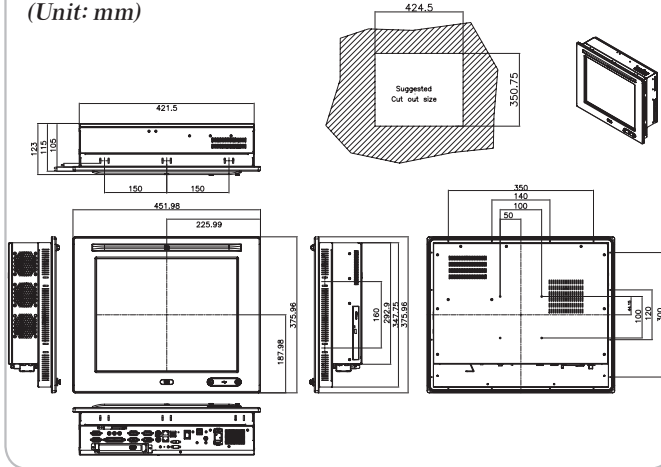
PACSmart Medical Solutions

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Optional Peripherals

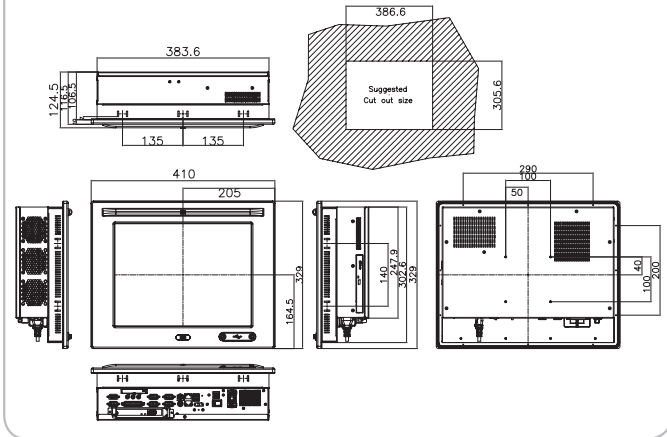
WIDS-517A Dimensions

(Unit: mm)



WIDS-515A Dimensions

(Unit: mm)



Ordering Information

Intel® G41 Platform			
15"	AC Input	WIDS-515A-G41-E15/R/1G-R10	15" 350 cd/m ² XGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		WIDS-515A-G41-Q94/R/1G-R10	15" 350 cd/m ² XGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	18-36 V DC input	WIDS-515AD-G41-E15/R/1G-R10	15" 350 cd/m ² XGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
		WIDS-515AD-G41-Q94/R/1G-R10	15" 350 cd/m ² XGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
17"	AC Input	WIDS-517A-G41-E15/R/1G-R10	17" 380 cd/m ² SXGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
		WIDS-517A-G41-Q94/R/1G-R10	17" 380 cd/m ² SXGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, ACE-A622A, touch screen, w/o riser card
	18-36 V DC input	WIDS-517AD-G41-E15/R/1G-R10	17" 380 cd/m ² SXGA Wireless Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
		WIDS-517AD-G41-Q94/R/1G-R10	17" 380 cd/m ² SXGA Wireless Panel PC with POS-G41, Core 2 Quad Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
Intel® 945G Platform			
15"	AC Input	WIDS-515A/9455-E2160/A618A/WT-R/1GB	15" 350 cd/m ² XGA Panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-A618A, touch screen, RoHS
	18-36 V DC input	WIDS-515A/9455-E2160/4520C/WT-R/1GB	15" 350 cd/m ² XGA Panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
17"	AC Input	WIDS-517A/9455-E2160/A622A/WT-R/1GB	17" 300 cd/m ² SXGA panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	18-36 V DC input	WIDS-517A/9455-E2160/4520C/WT-R/1GB	17" 300 cd/m ² SXGA panel PC with POS-9455, Pentium Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
Riser Card		PCIR-01H-R10	1-Slot PCI riser card
		PCIER-101H-R10	1-Slot PCIe x1 riser card

PCIER-101H-R10



PCIe x4 slot with PCIe x1 signal riser card

PCIR-01H-R10



One Slot PCI riser card

Packing List

Item	Part No.	Description
SATA CD-ROM Cable	32803-000300-100-RS	SATA 7+6 P TO SATA 7P /4P POWER
Power Cord	32702-000200-100-RS	EUROPEAN Standard ,1830MM
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	WALL MOUNT BRACKET
	41014-057602-00-RS	ULTRA SET PLATE
Touch Pen	43125-0002C0-00-RS	
User's Manual CD-ROM	IEI-7B000-000543-RS	For WIDS-51xA-G41
IEI One Key Recovery CD	IEI-7B000-000478-RS	

Options

Item	Part No.	Description
IDE CD-ROM Installation Kit	19Z00-000112-RS	CD-ROM IDE40 adapter
IDE HDD Bracket	41019-0393C0-00-RS	
IDE HDD Cable	32200-000037-RS	25cm 44-pin IDE cable

IQ Mounting Options

Item	WIDS-515A	WIDS-517A
Panel Mount Kit	PK-170M	
Wall Mount Kit	WK-190MS-R10	
Rack Mount Kits	WIDSRK-150MS-R10	WIDSRK-170MS-R10
Stand	STAND-210-R11	
ARM	ARM-31-RS	