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Leading Industrial PC Provider

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PPC-5150A-G41/PPC-5170A-G41/ PPC-5190A-G41

15"~19" Quad Core Industrial Panel PC with One PCI/PCIe Slot



Quad Core
+ DDR3

Key Features

- 15"~19" robust panel PC with touchscreen
- Heavy-duty design with anti-rust chassis with aluminum IP65 compliant front panel
- Powered by high performance Intel® Core™2 Extreme/Quad/Duo and Celeron® processor supports up to 1333 MHz FSB with Intel® G41 chipset
- System memory supports dual-channel DDR3 DIMM up to 4 GB
- Offers one expansion slot for PCI/PCIe1 add-on cards
- Dual gigabit Ethernet
- Versatile mounting solution: panel/wall/rack/stand mounting
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery



- ➔ [Easily Upgrade to the Quad Core CPU without Additional Mechanism Rebuilding Costs](#)
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Easily Upgrade to the Quad Core CPU without
Additional Mechanism Rebuilding Costs

1. Upgradeable CPU Performance

Easy upgrade options from existing platforms featuring Intel® 945G 65nm dual core processor to Intel® 65nm/45nm quad core extreme performance platforms, meeting the needs of a wide range of intensive applications, and without the need to modify your system mechanism.



Fully support from 45nm to 65nm

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 PClex1 or one PCI	
System Dimensions (WxHxD) (mm)	15" : 410 x 309 x 110.5	
	17" : 452 x 356 x 115	
	19" : 483 x 399 x 115.2	

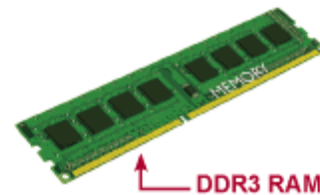
Quad Core

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
Core 2 Duo	E8400	3.0G	1066	6M
	E7400	2.8G		3M
Pentium D Dual Core	E6500	2.93G	1066	2M
	E5300			
		2.6G	800	
Core 2 Duo	E6400	2.13G	1066	2M
	E4300	1.8G	800	2M
Pentium D Dual Core	E2160	1.8G	800	1M
	E3400			
Celeron Dual Core	E1500 (Default)	2.4G	800	512K
			512K	
Celeron	440	2.00G	800	512K

2. Effective and Low Voltage DDR3 SDRAM Support

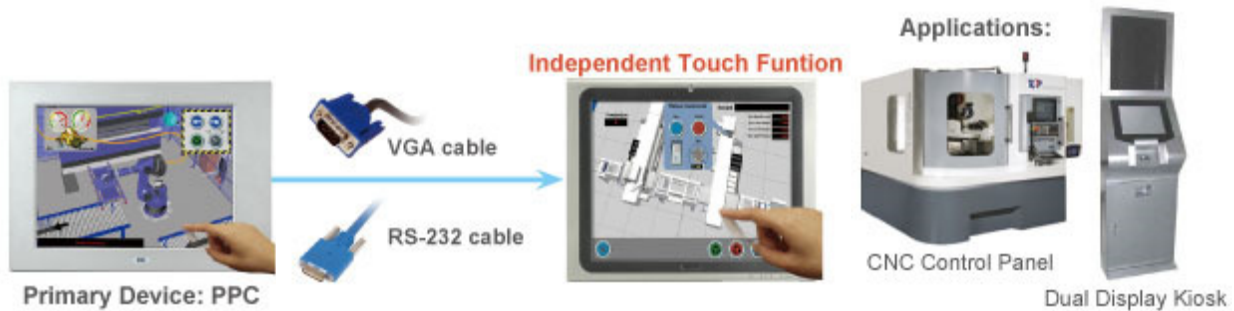


Memory Type	DDR SDRAM	DDR2 SDRAM	DDR3 SDRAM
Prefecth	2-bit	4-bit	8-bit
Transfer Rate	DDR-200 ~ DDR-400	DDR2-400 ~ DDR2-800	DDR3-800 ~ DDR3-1600
Core Voltage	2.5 V	1.8 V	1.5 V

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Touch Enabled Second Display

The PPC touch driver supports secondary display touch function. Just connect the VGA and RS-232 cable to the second monitor (AFOLUX monitor), doing calibration and you will get the dual touch experience and improve work efficiency.



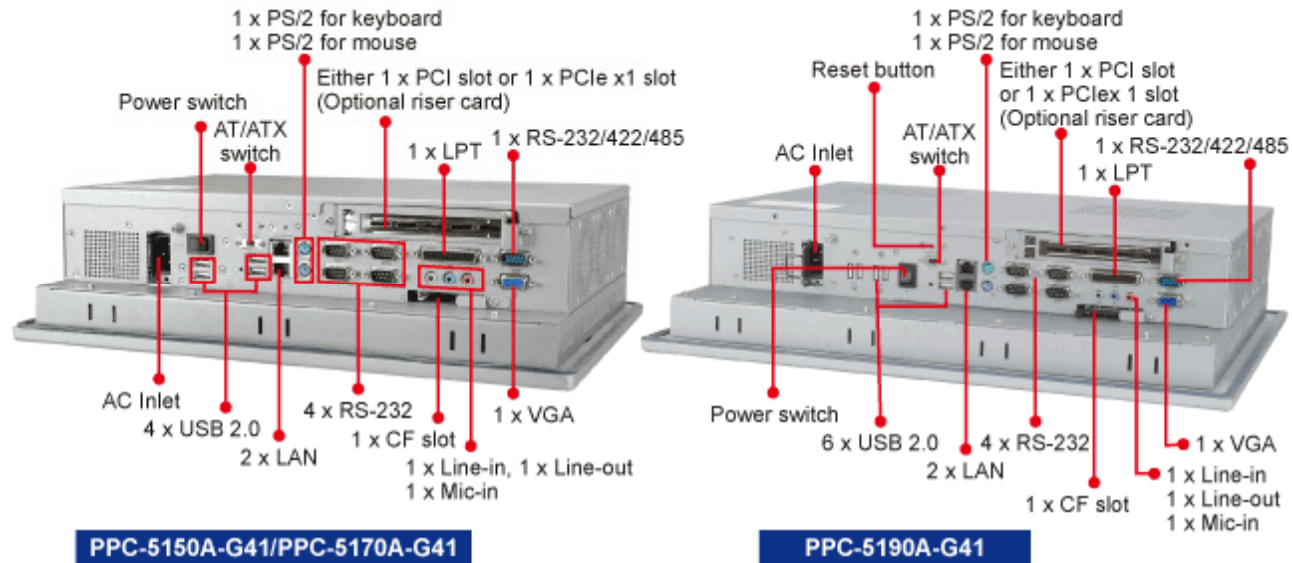
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PCI/PCIe Expansion Capability



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I/O Interface



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Specifications

Model	PPC-5150A-G41	PPC-5170A-G41	PPC-5190A-G41
Display	LCD Size	15"	17"
	Max Resolution	1024(W) x 768(H)	1280(W) x 1024(H)

	Brightness (cd/m ²)	350	380	450	
	Contrast Ratio	700:1	1000:1	1000:1	
	LCD Color	16.2M	16.7M	16.7M	
	Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)	
	Viewing Angle (V-H)	125°/140°	160°/170°	160°/170°	
	Backlight MTBF (hrs)	50,000	50,000	50,000	
	SBC Model		POS-G41		
Motherboard	CPU	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support			
	Chipset	Intel® G41 + Intel® ICH7			
	RAM	Supports two 800/1066MHz DDRIII DIMM (4GB Max.)			
I/O Ports and Switches		4 x RS232 COM port	4 x RS232 COM port	4 x RS232 COM 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	
		4 x USB 2.0	4 x USB 2.0	6 x USB 2.0	
		1 x VGA Port	1 x VGA port	1 x VGA port	
		1 x Audio (Line-in, Line-out, MIC-in)	1 x Audio (Line-in, Line-out, MIC-in)	1 x Audio (Line-in, Line-out, MIC-in)	
		1 x LPT	1 x LPT	1 x LPT	
		1 x PS/2 (KB/MS)	1 x PS/2 (KB/MS)	1 x PS/2 (KB/MS)	
		1 x Power switch	1 x Power switch	1 x Power switch	
		1 x AT / ATX switch	1 x AT / ATX switch	1 x AT / ATX switch	
	Driver Bay	HDD Driver Bay	1 x 2.5 SATA/IDE HDD bay with anti-shock		
		SSD	CF type II		
		CD-ROM Driver Bay	Slim type CD-ROM bay		
Extension Slot		Either 1 x PCI slot or 1 x PCIe x1 slot (Optional riser card) 1 x PCIe Mini card			
Physical	Construction Front Panel	Aluminum			

Construction Chasis	Heavy-duty steel		
Mounting Front Panel	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
Color	Silver (Pantone 8001C)		
Dimensions (WxHxD) (mm)	410 x 309 x 110.5	452 x 356 x 115	483 x 399 x 115.2
Net Gross Weight	7 Kg / 11 Kg	8 Kg / 12 Kg	12.6 Kg / 18.2 Kg
Operation Temperature (°C)	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C
Environment Storage Temperature (°C)	-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		
AC Input	AC Input ATX power supply - 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	DC Input ATX power supply - 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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Options		Packing List		
Part Number	Description	Item	P/N	Qty
19Z00-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)	User's Manual		1
41019-0393C0-00-RS	IDE HDD Bracket	Manual CD-ROM	32803-000300-100-RS	1
		Cable		

32200-000037-RS	25cm HDD IDE Cable	Power Cord	32000-000002-RS	1
		Panel Mount Kit	19Z00-000024-RS	1
		Wall Mount Kit	41020-016102-00-RS	1
		Touch Pen		1
		IEI One Key		1
		Recovery CD		1

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IQ Mounting Options

Item	PPC-5150A	PPC-5170A	PPC-5190A
Rack Mount Kit	RK-150MS-R10	RK-170MS-R10	RK-190MS-R10
Stand		STAND-210-R11	
ARM		ARM-31-RS	

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Ordering Information

	PPC-5150A-G41-E15/R /1G-R10	15" 350 cd/m ² 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/m ² 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
15" PPC	PPC-5150AD-G41-E15/R /1G-R10	15" 350 cd/m ² 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/m ² 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

17" PPC	AC Input	PPC-5170A-G41-E15/R /1G-R10	17" 380 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-5170A-G41-Q94/R /1G-R10	17" 380 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-5170AD-G41-E15/R /1G-R10	17" 380 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-5170AD-G41-Q94/R /1G-R10	17" 380 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
19" PPC	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	PCIR-01H-R10		1-Slot PCI riser card

Card PCIER-101H-R10



PCIER-101H-R10
PCIe x4 slot with PCIe
x1 signal riser card

1-Slot PCIe x1 riser card



PCIR-01H-R10
One Slot PCI riser card

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