

PPC-6170A

PPC-6150A

17"/15" Panel PC with Intel® Core™ i5 / i7 Processor and 4 additional GbE ports



Features

- Intel® Core™ i5/i7 + Intel QM77 PCH
- 1X DDR3/DDR3L SODIMM support to 8 GB
- Multiple expansion slots including one PCI + one PCIe x1, two PCI (optional) and two PCIe x1 (optional)
- Optional second HDD, supports Intel RAID
- One isolated RS-232/422/485 port; (selected in the BIOS)
- One GPIO/RS-232 (8 channels, TTL level); (by swapping pin header)
- Dual GbE, supports Intel AMT8.0, four additional GbE (Intel i350) for Machine Vision
- Supports iManager, SUSIAccess and Embedded Software APIs



Introduction

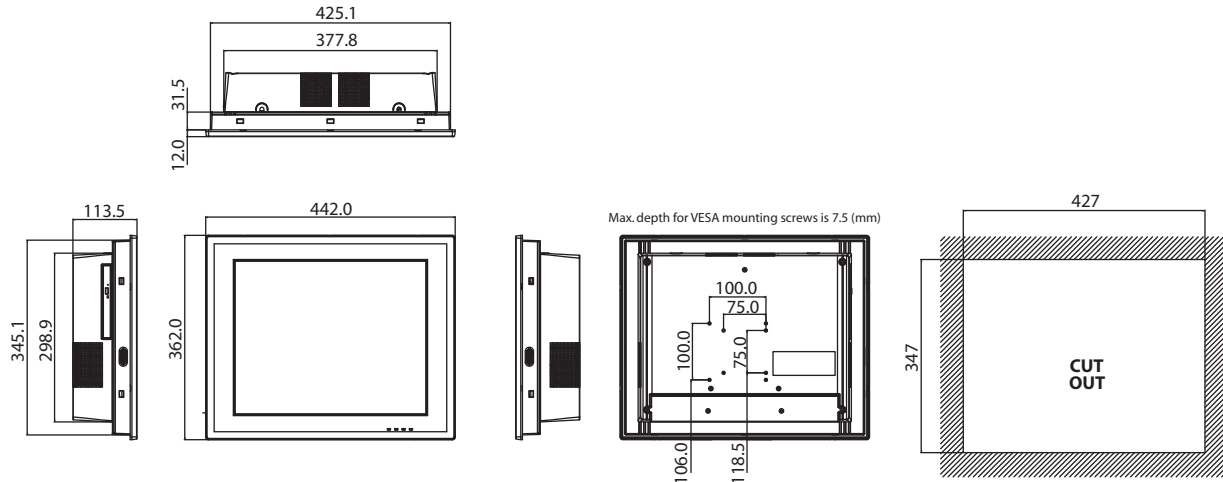
The PPC-6170A and 6150A are Panel PCs with an Intel Core i5/i7 processor, and a 15" and 17" color TFT LCD panel. It features extremely high computing power, modular design, excellent connectivity, and four additional GbE ports, which is ideal design for machine vision markets. In addition, its user-friendly interface makes it a great host for information appliances. Two expansion slots, dual hard drives supporting Intel RAID, and one isolated RS-232/422/485 port make the PPC-6170A and PPC-6150A highly reliable, and provide a great solution for a wide range of applications.

Specifications

Processor System	Intel	Core i5-3610ME (Duo Core)	Core i7-3612QE (Quad core)
	Frequency	2.7 GHz	2.1 GHz
	L3 Cache	4M	6M
	Chipset	Intel QM77	
	Memory	1 x 204-pin SODIMM, DDR3 (1600 MHz) / DDR3L (1333 MHz), supports up to 8 GB	
	Storage 1	1 x 2.5" SATA bay	
	Storage 2	Either one - Second 2.5" SATA bay (Intel RAID supported, optional) - Slim type 8X or above DVD +/- RW (optional)	
	Network1 (LAN1, LAN2)	2 x Gigabit Ethernet connectors, Intel AMT supported (GbE1- Intel 82579LM, GbE2 – Intel 82583V)	
	Network2 (LAN3, LAN4, LAN5, LAN6)	4 x Gigabit Ethernet connectors, Intel i350	
	I/O ports	- 2 x COM ports, 1 x isolated RS-232/422/485, 1 x RS232 - 1 x GPIO/RS-232 (8 channels, TTL level); by pin header - 3 x USB3.0 + 2 x USB2.0 ports	- (2+4) x Gigabit Ethernet - 1 x D-SUB VGA port - 1 x HDMI - 1 x Line-out, 1 x Mic-in, 2 x 1W speaker
Expansion Slots	Either: - one PCI + one PCIe x1 (standard)	- two PCIe x 1 (optional) - two PCI (optional)	
Additional Expansion	1 x Full-size mini PCIe (Supports mSATA) 1 x half-size mini PCIe		
FAN	Two 12V 60 x 60 x 13 (mm) with smart fan control, (70,000 hours continuous test @ 40° C)		
Physical Characteristics	Dimensions	PPC-6150A: 395.5 x 316.8 x 105.5 (mm) (15.6" x 12.5" x 4.15") PPC-6170A: 442.0 x 362.0 x 113.5 (mm) (17.4" x 14.25" x 4.47")	
	Weight	PPC-6150A: 6.5Kg (14.32lb) PPC-6170A: 7.5Kg (16.52lb)	
OS Support	OS Support	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit	
	Output Rating	150 W (max.)	
	Input Voltage	100 - 240V _{AC} , 50/60Hz, 4-2A	
Power Supply	Power Consumption	With Core i5-3610ME With Core i7-3612QE (Burn-in test 7.0 in Windows 7 32-bit)	PPC-6150A: 63W PPC-6170A: 67W PPC-6150A: 67W PPC-6170A: 73W
	LCD Display	Display Type	17" TFT LCD (LED Backlight)
Max. Resolution		1280 x 1024	1024 x 768
Colors		262K	262K
Dot Size (mm)		0.264 x 0.264	0.297 x 0.297
Viewing Angle		85 (left), 85 (right), 80 (up), 80 (down)	80 (left), 80 (right), 70 (up), 70 (down)
Luminance(cd/m2)		350	400
Contrast Ratio		1,000	700
Backlight Lifetime	50,000 hrs (typical)	50,000 hrs (typical)	

PPC-6170A Dimensions

Unit: mm



Note: For PPC-6150A dimensions, refer to the standard PPC-6150 datasheet.

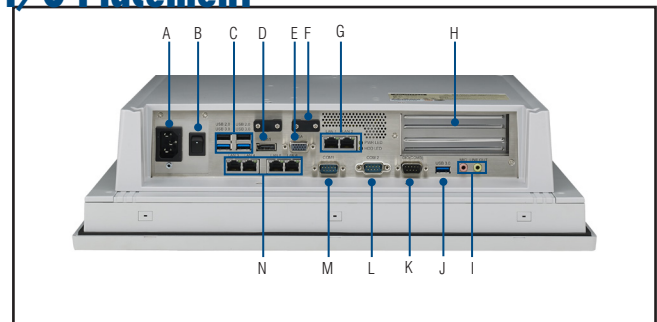
Specifications (Cont.)

Touchscreen	Touch Type	Analog Resistive 5-wire
	Resolution	2048 x 2048
	Light Transmission	81+/-3%
	Controller	RS-232 interface (COM5), USB interface is available as an option
	Software Driver Support	Windows 7, XP
	Durability (Touches)	36 million
Environment	Operating Temperature	0 ~ 50°C (32 ~ 122°F)
	Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)
	Relative Humidity	10 ~ 95% @ 40°C (non-condensing)
	Shock	Operating 10 G peak acceleration (11 ms duration), follows IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5-500Hz, 1Grms, follows IEC 60068-2-64
	EMC	BSMI, CE, FCC Class A
	Safety	CB, CCC, BSMI, UL
	Front Panel Protection	IP65 compliant

Ordering Information

Part No.	Description
PPC-6170A-Ri5AE	Intel Core i5-3610ME (2.7G) Panel PC with 17" XGA LED backlight , 5-wire resistive T/S and 4 additional GbE ports, w/o memory
PPC-6150A-Ri5AE	Intel Core i5-3610ME (2.7G) Panel PC with 15" XGA LED backlight , 5-wire resistive T/S and 4 additional GbE ports, w/o memory
PPC-6150-PCIE	Riser card support two PCI slots for PPC-6150/PPC-6170
PPC-6150-PCIEE	Riser card support two PCIe x1 slots for PPC-6150/PPC-6170
PPC-6150-HDDE	Kit to install the second 2.5" SATA HDD for PPC-6150/PPC-6170, w/o HDD
PPC-6150-DVDE	Module with 8X SATA DVD-RW for PPC-6150/PPC-6170
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-ARM-A03	PPC ARM VESA Standard
PPC-Stand-A1E	Stand For PPC Series
1702002605	Power cord 90D 220V EUROPEAN 250V/6A, 1.8M
1702002600	Power cord UL/CSA(USA) 180D 125V/10A 1.83M
PPC-WLAN-A1E	Wi-Fi Module with Antenna Cable 28cm for PPC
1700019336	Cable for an external 25-pin LPT port
PPC-FUSB-A1E	Front USB Cable with 100cm for PPC
PPC-Card-A1E	Msata/CFast to USB card reader

I/O Placement



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|-----------------------------|---|
| A: AC Inlet | H: 2 Expansion slots |
| B: Power Switch | I: Line out / Mic in |
| C: USB 3.0 x 2, USB 2.0 x 2 | J: USB 3.0 x 1 |
| D: HDMI | K: GPIO / RS-232 (by swapping pin header) |
| E: VGA | L: Isolated RS-232/422/485 (selected in the BIOS) |
| F: Cable clip x 2 | M: RS-232 x 1 |
| G: Gigabit Ethernet x 2 | N: Gigabit Ethernet x 4 (Intel i350) |