Regional Service & Customization Centers
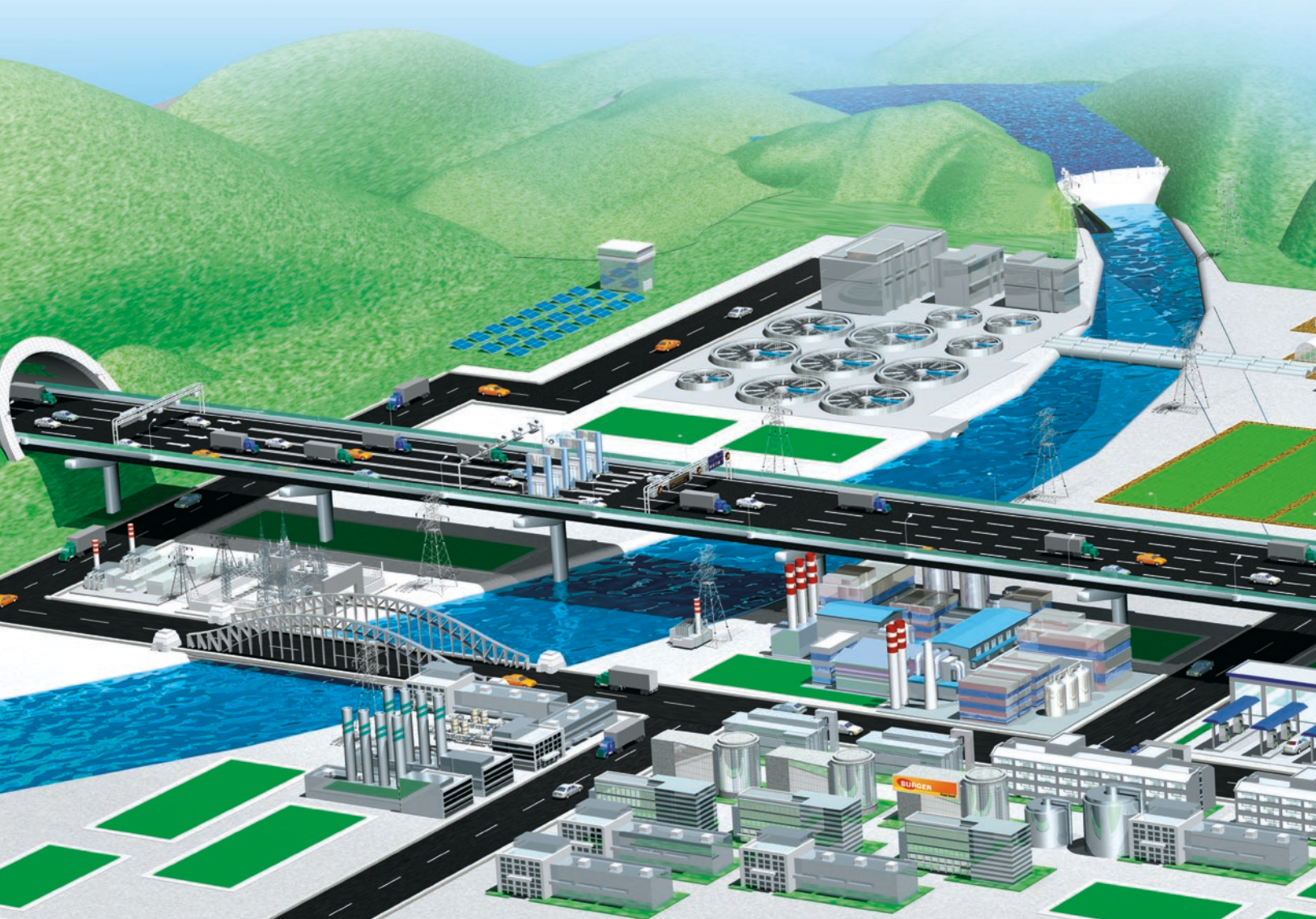
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Advantech Panel PC Platform

Speed up Your Quote-to-Cash Cycle

- ✓ Multi-functional Panel PC
- ✓ Fanless Panel PC

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About Advantech

Advantech, Enabling an Intelligent Planet
Founded in 1983, Advantech is a leader in providing trusted innovative embedded and automation products and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, and global logistics support; all backed by industry-leading front and back office e-business solutions. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. Advantech has always been an innovator in the development and manufacture of high-quality, high-performance computing platforms, and our mission is to empower these innovations by offering trustworthy products and services that enable an intelligent planet. With Advantech, there is no limit to the applications and innovations our products make possible.

Advantech Global Services

Advantech has over 12 regional hotlines and offices throughout 91 cities, in 20 countries, with nearly 6,000 employees to provide efficient, professional services for customer care, product selection, technical support, and order handling. Through our call centers and online stores, customers worldwide enjoy the convenience of Advantech's multi-service channels to reduce business turnaround time. Together with the four customer service centers in Taiwan, China, Europe and the United States, our global service network offers an extensive spectrum of services that includes warehousing, logistics, peripheral certification, sourcing & purchasing, and RMA & value-added services, and technical support & training.

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Shanghai
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Cincinnati
Kunshan
Tokyo
Chengdu
Osaka
Taipei
Bangalore
Bangkok
Hong Kong
Penang
Shenzhen
Kuala Lumpur
Singapore
Sao Paulo

Sydney
Melbourne

- Design Centers
- Manufacturing Centers
- Logistics Centers
- Service / Repair Centers
- Assembly Centers

Panel PC Introduction

Advantech Panel PCs open up new opportunities by integrating computers with industries and applications; they bring computing to places and applications never imagined before. Their slim profiles, comprehensive functionality, high brightness LCDs, and user-friendly touchscreens make them the ideal solution for operator panels, information terminals, ecommerce terminals and human-machine interfaces. Producing high-quality industrial products is Advantech's specialty. Our Panel PCs are built to survive unforgiving environments, such as factory automation facilities, production control points, warehouses and distribution centers, transportation control centers, stations, airports and even refrigerated environments. As an ISO-9001 and ISO-14000 certified organization, Advantech abides by strict quality control standards applied to design, production and shipment. Panel PCs are subject to extensive testing prior to product release including EMI, EMC, temperature and vibration testing, and exposure to dust and liquids.

Multi-function Panel PC

- High computing power
- Multiple I/O
- AC power-in
- PCI/PCIe Expansion

Fanless Panel PC

- Slim
- Fanless
- Low power consumption
- Wide range DC-input
- PCI/PCIe expansion

Installation Accessories

- Multiple standard mounting options
  - Desktop stand
  - Arm
  - Wall mount
  - Panel mount

Key Features of Panel PCs

Panel PCs offer customers unique features for specific application needs.

Customers can choose CPU, operating system, LCD, touchscreen and sunlight readable features. All the best standard and customized solutions are available for their applications.

(intel)

Intelligent Systems Alliance Premier

• 3rd Gen Intel® Core™ i
• Intel® Atom™ D2550

Most updated platform

PPCs focus on new CPU technology so that the customer can take advantage of better CPU computing / graphic performance and even lower power consumption. With the most updated platform, customer can get the best cost effective products.

Full Range LCD

Advantech panel PCs provide a wide range of panel size options from 6.5 to 17 TFT LCD , and also 15.6/18.5/21.5 in widescreen format.

6.5" 10.4" 12.1" 15" 17"
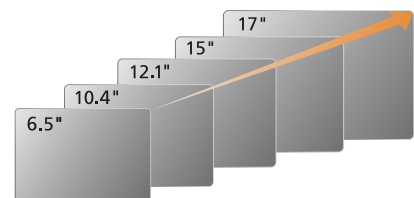
Auto Dimming

Ambient light may change throughout the day. With an auto-dimming function, the backlight is adjusted automatically by sensing environmental light level. Not only making operating them more comfortable, but also saving more power.
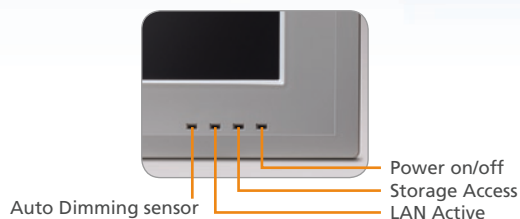
LED Indicators

Most customers embed PPCs and it's important to identify the system status from the front bezel LED. It displays the power on / off status, storage being accessed and Ethernet transfer status. With the user friendly LED indicator, you can easily check if any issues occur on your systems.

Power on/off
Storage Access
LAN Active
Auto Dimming sensor

IP65 Front Panel

With advanced mechanical design, we provide the an IP65 grade dustproof and waterproof front bezel. It protects the PPC in harsh environments and keeps it operating.

IP65

IP65 Compliant
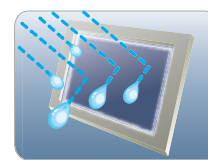
Spill & Dust Resistant

SUSIAccess support

With SUSIAccess, providing customers with remote devices monitoring, switch machines, desktop connection, system recovery and system protection features and so on that help customers to multiple clients through a single console for remote device management. The services are also designed to be cloud-based. It provides on-demand software services so SIs can download & upgrade applications when they need.

SUSIAccess
Remote Device Management

Key Features of Panel PCs

Two PCIe x 1
Two PCI
PCI+PCIe x 1
PCIe x 4
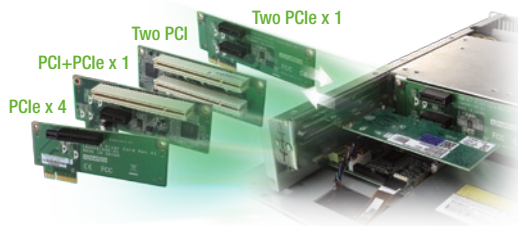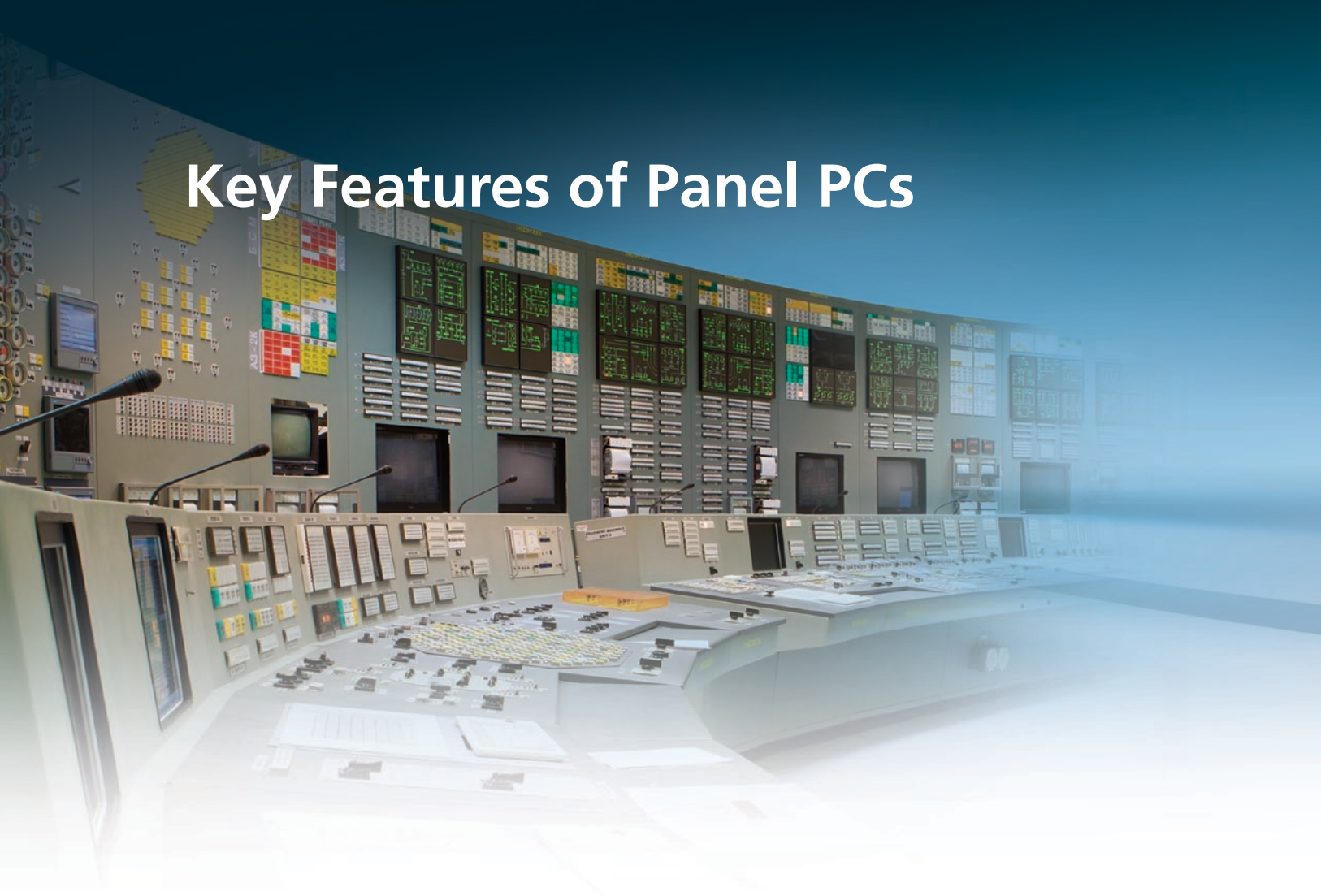
Excellent Extensibility Expansion

To use in different scenarios, PPCs provide multiple options on miniPCIe, PCI and PCIex1 standard expansions cards. Through this flexible design, customers can add on field bus cards to communicate with their own devices.

Dual 2.5" HDD with RAID Support

The Dual HDD design provides Intel RAID 0/1 to ensure data protection and help customers easily recover from a crashed system.

Support Dual HDD with Intel RAID

RAID 1

Auto backup recovery

One isolated RS-232/422/485 Port (Selectable by BIOS)

Isolation

To enhance system reliability, isolation prevents irregular power and avoids system crashes caused by voltage spikes from devices connected through RS-232/422/485.

Key Benefits for Your Systems

Configure To Order Service (CTOS)

ADVANTECH CTOS
Configure To Order Services

With an optimized and modular design, its never been easier to meet customer's varied requirements. CTOS provides a great value added service to save customer's time and money on system configuration.

Fully supported customization services

Although 'off-the-shelf' PPCs provide an excellent array of features, customers' needs are unlimited. With our quick and efficient R&D capabilities we provide a customization service from mechanical modification, software image distribution, I/O adjustment and so on. The benefit to customers is that they get more unique products to fulfill different applications.
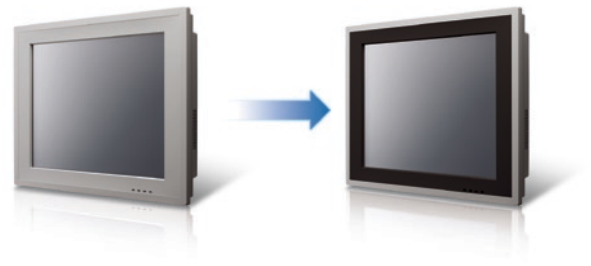
Cost-effective

The PPC focuses on the machine builder and industrial process monitoring market. By adopting the most up-to-date technology and optimized mechanical design PPCs provide you with the best combination of cost versus performance products to fit your integration needs. However, system reliability is never sacrificed and a PPC is always your bet choice.

Monitoring & Process Control

Machine automation is a system that tracks and adjusts resource usage as needed. Automated monitoring and process control in production cycles improves efficiency and productivity. Predictive process control involves the ability to monitor and control a continuous material process in real time. This allows the conditions of the process to be quickly and responsively adjusted, and avoids the delays associated with monitoring the final product. A hierarchy of LANs has also emerged, ranging from general to the more specialized, and from Ethernet to FDDI systems, each with its own specific usage. The data handled is more than just a control data, it also includes a variety of operational and processing data, seeking to establish comprehensive systems that embrace both data systems and control systems. It will be necessary to interconnect a variety of support systems (engineering support, operational support, diagnostic support, maintenance support, software development support, etc.) so as to form a data and control system capable of optimizing manufacturing throughout the plant. Client-server configurations are now being used for the functions.

Why Panel PC's?

Panel PC's compact design and multi I/O have expanded possibilities for control of devices by offering a central control platform. Panel PCs are used in monitoring system conditions and administration. Process monitoring, process control, automation, real-time operator interface and display, on-line analysis and networking are all parts of their functionality.

1. User-friendly interface

The user-friendly touchscreen has an improved interface, and enables the operator to remotely control each device.

2. High reliability and maintainability

Industrial grade Panel PC's provide high levels of reliability, ease of continuous operation and maintenance.

3. Flexible system configuration

Panel PC's for monitoring & process control can interconnect with business computer systems, plant controllers, design systems, and a variety of other systems. The full set of network functions and multi-I/O can be flexibly configured.

Computerized Operating Systems

Panel PCs can be used in any system that needs an operating interface for information input, display monitoring or preview, data storage and and retrieval; as well as network connectivity to a LAN or WAN via wired or wireless connection. Panel PC interfaces act as operating centers for systems. Multifunction products such as all-in-one printer/fax/copier/scanners are getting more complicated and versatile, requiring a PC-like appliance to control the system more efficiently; this is a key role for a Panel PC. Operators can input commands and preview content through a Panel PC. Revisions can be made before formal printing and copies can be permanently stored on servers through an Ethernet connection.

Why Panel PC's?

1. Flexible installation

Panel PC's offer various installation options (wall-mount, panel-mount, rail-mount, swing-arm, stand, etc.) to meet any customer requirement.

2. Intuitive operation with touchscreen

Compared with keyboards & mice, touchscreens are a more convenient operating interface. With different environments or requirements, Panel PC's offer different technologies like: Resistive, Capacitive or SAW (Surface Acoustic Wave) touchscreens.

3. Various I/O and expansion ports

Panel PC's provide various I/O ports like USB, parallel port, COM port and PCI/ISA slot. Customers can easily integrate Panel PC's with other devices.

Fanless Panel PC Selection Guide

NEW

Selection Guide

Model Name		Fanless Panel Computer		
		PPC-L62T	PPC-3100	PPC-L128T
CPU Board		PCM-8205	PCM-8206	PCM-8201
Processor		Intel Atom N455 (1.66 GHz)	Intel Atom Dual core D2550 (1.86 GHz)	Intel Atom N270 1.6 GHz
Memory	Size	512 MB ~ 2 GB DDR3 SDRAM	Maximum 4GB DDR3 1066	DDR2 533 Up to 2 GB
	Module Type	204-pin SODIMM x 1	204-pin SODIMM x 1	200-pin SODIMM x1
2nd Cache Memory		512 KB	1MB	512 KB
SSD/Type		Supports one CFast socket	Support 1 x internal mSATA	Supports one CompactFlash Type II, socket
Display	Size/Type	6.5" TFT LCD, LED Backlight	10.4" TFT LCD, LED backlight	12.1" Color TFT LCD
	Max. Resolution	640 x 480	800 x 600	1024 x 768
	Max. Colors	262 K	262 k	262 K
	Pixel Pitch (mm)	0.207 x 0.207	0.264 x 0.264	0.240 x 0.240
	Brightness (cd/m²)	700	400	450/600
	Viewing Angle	160°/140°	160°/140°	160°/160°
	Brightness Control	Yes	Yes	Yes
	Simultaneous Mode	Yes	Yes	Yes
	Backlight MTBF	50,000 hrs	30,000 hrs	50,000 hours
VGA	Chipset	Intel N455 + Intel ICH8M	Intel D2550 Integrated	Intel 945GSE + Intel ICH7M
HDD/Type		Optional 1 x 2.5" drive bay	1 x 2.5" internal SATA drive bay	1 x 2.5" internal SATA drive bay
DVD-ROM, DVD+/- RW Drive Option		-	-	Optional
I/O Ports		2 x COM ports, 2 x GbE LAN, 4 x USB, Audio line out	4 x Serial ports: 3 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) 4 x USB ports 1 x Line-out, 1x MIC-in 1 x DB15 VGA 1 x DB9 GPIO port (8 pin programable)	3 Serial Ports: RS-232 x 2, RS-232/422/485 x 1; 1 GPIO port 1 VGA Port; PS/2 Mouse and Keyboard, Line-in/ Line-out/ Mic-in Built-in 1W x 2 speakers, USB 2.0 ports x 4
Bus Expansion		1 x miniPCIe	1 x miniPCIe	Optional 1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot
Network (LAN)		2 x 10/100/1000 Mbps (RJ-45)	2 x 10/100/1000 Mbps (RJ-45)	2 x 10/100/1000 Mbps (RJ-45)
Power	Input Voltage	15 ~ 24 V$_{DC}$	12~30 V$_{DC}$	12 ~ 24 V$_{DC}$
Touchscreen	Technology	Resistive	Resistive	Resistive
	Light Transmission	81%	81%	80%
	OS Support	Windows CE, XPE, XP, WIN 7	Windows XPE, WES7, WEC7	Windows XPE/XP Pro, Vista, WES7, CD6.0
	Durability (Touches)	36 million	36 million	35 million
Watchdog Timer		255 Level	255 Level	255 Level
Working Temperature		0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0-45°C (32-113°F)
Front Panel Protection		IP65 compliant	IP65 Ccompliant	IP65 compliant
Certification		CE. FCC Class B, BSMI, CCC, UL	CE. FCC Class B, UL, BSMI, CCC	CE. FCC Class B, UL, BSMI, CCC, CB, VCCI
Dimensions (W x H x D)		202 x 148 x 49 mm (7.9" x 5.82" x 1.92")	275 x 220 x 68 mm (10.83" x 8.74" x 2.68")	340.5 x 269.3 x 70.5 mm (13.41" x 10.6 x 2.78")
Weight		1.5 kg (3.3lb)	3.0 kg (6.6lb)	3.63 kg (7.98 lb)
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Fanless Panel Computer		
PPC-3120	PPC-L157T	PPC-L158T
PCM-8206	PCM-8201	PCM-8204
Intel Atom Dual core D2550 (1.86 GHz)	Intel Atom N270 1.6 GHz	Intel Atom Dual core D525 1.8G
Maximum 4GB DDR3 1066	DDR2 533 Up to 2 GB	DDR3 800 MHz up to 4 GB (2 GB each socket)
204-pin SODIMM x 1	200-pin SODIMM x1	204-pin SODIMM x 2
1MB	512 KB	1 MB
Support 1 x internal mSATA	Supports one CompactFlash Type II, socket	Supports one CFast Type II, socket
12.1" Color TFT LCD, LED backlight	15" Color TFT LCD	15" Color TFT LCD, LED backlight
1024 x 768	1024 x 768	1024 x 768
262 K	262 K	262 K
0.240 x 0.240	0.297 x 0.297	0.297 x 0.297
600	350	350
160°/160°	160°/130°	160°/130°
Yes	Yes	Yes
Yes	Yes	Yes
50,000 hours	50,000 hours	50,000 hours
Intel D2550 Integrated	Intel 945GSE + Intel ICH7M	Intel D525 + Intel ICH8M
1 x 2.5" internal SATA drive bay	1 x 2.5" internal SATA drive bay	1 x 2.5" internal SATA drive bay
-	Optional	Optional
4 x Serial ports: 3 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) 4 x USB ports 1 x Line-out, 1x MIC-in 1 x DB15 VGA 1 x DB9 GPIO port (8 pin programable)	3 Serial Ports: RS-232 x 2, RS-232/422/485 x 1; 1 GPIO port 1 VGA Port ; PS/2 Mouse and Keyboard, Line-in/Line-out/ Mic-in, Built-in 1W x 2 speakers, USB 2.0 ports x 4	4 x COM ports: 2 x RS-232, 1 x RS-232/422/485, 1 x RS232/ GPIO (8 channels, TTL level) 4 x USB 2.0 ports Mic in/ Line out, 1W speaker - 2 x Gigabit Ethernet ports 1 x D-SUB VGA port 1 x PS/2 mouse and 1 x keyboard interface
Optional 1 x expansion slot for PCI/PCIe card 1 x miniPCIe slot	Optional 1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot	1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot
2 x 10/100/1000 Mbps (RJ-45)	2 x 10/100/1000 Mbps (RJ-45)	2 x 10/100/1000 Mbps (RJ-45)
12 ~ 30 V_{DC}	12 ~ 24 V_{DC}, 15 ~ 24 V_{DC} with battery pack	AC Model: 100W 100 ~ 250 V_{AC}/50 ~ 60 Hz DC Model: 90W 15 ~ 24 V_{DC}
Resistive	Resistive	Resistive
80%	80%	80%
Windows XPE, WES7, WEC7	Windows XPE/XP Pro, Vista, WES7	Windows XPE/XP Pro, Vista, WES7, CE6.0
35 million	35 million	35 million
255 Level	255 Level	255 Level
0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32-122°F); 0 ~ 35°C with battery	0 ~ 50°C (32-122°F); 0 ~ 35°C with battery
IP65 compliant	IP65 compliant	IP65 compliant
CE. FCC Class B, UL, BSMI, CCC	CE. FCC Class B, UL, BSMI, CCC, CB, VCCI	CE. FCC Class B, UL, BSMI, CCC, CB, VCCI
325 x 253.8 x 58.4 mm (12.79" x 10" x 2.3")	396.5 x 317.6 x 74.8 mm (15.6" x 12.5" x 2.95")	396.5 x 317.6 x 74.8 mm (15.6" x 12.5" x 2.95")
3.0 kg (6.6lb)	6 kg (13.2 lb)	6 kg (13.2 lb)
20	22	24

Multi-functional Panel PC Selection Guide

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Selection Guide

Model Name		Multi-functional Panel Computer		
		PPC-125T	PPC-157T	PPC-6150
CPU Board		PCM-8200	PCM-8200	MIO-5290 PCM-8207
Processor		Socket 478 Supports Intel Core 2 Duo processor up to 2.16 GHz	Supports Socket 478 based Core 2 Duo up to 2.16 GHz	3rd Gen Core i CPU Celeron 847E 1.1 GHz Celeron 1020E 2.2 GHz Core i3-3120ME 2.4 GHz Core i5-3610ME 2.7 GHz
Memory	Size	512 MB ~ 4 GB DDR2 SDRAM	Supports up to 4 GB of 667 MHz DDR2 system memory	DDR3 (1600 MHz) / DDRL (1333 MHz), supports up to 8 GB
	Module Type	200-pin SODIMM x 2	SODIMM (socket x 2)	1 x 204-pin SODIMM
L2 Cache Memory		On-die 512 KB ~ 4 M	On-die 512 KB ~ 4 M	2MB/3MB
Storage/Type		Supports 1 x internal CompactFlash Type ll socket, 2.5" SATA HDD drive	Supports 1 x internal CompactFlash Type ll socket, 2.5" SATA HDD drive	1 x 2.5" SATA bay Either one - Second 2.5" SATA bay (Intel RAID supported, optional) - Slim type 8X or above DVD +/- RW (optional)
Display	Size/Type	12.1"	15" Color TFT LCD	15" TFT LCD (LED Backlight)
	Max. Resolution	1024 x 768	1024 x 768	1024 x 768
	Max. Colors	262 K	262K	262K
	Pixel Pitch (mm)	0.240 x 0.240	0.297 x 0.297	0.297 x 0.297
	Brightness (cd/m²)	450	350	350
	Viewing Angle	80°(left), 80°(right), 80°(up), 80°(down)	80°(left), 80°(right), 70°(up), 60°(down)	80°(left), 80°(right), 70°(up), 70°(down)
	Brightness Control	Yes	Yes	Yes
	Simultaneous Mode	Yes	Yes	Yes
	Backlight MTBF	50,000 hrs	50,000 hrs	50,000 hrs
VGA	Chipset	945GME	945GME	Intel 3rd Gen Core i CPU+QM77
CD-ROM/Combo Drive		Optional extenal module for 1 x slim type optical drive (optional SATA optical drive)	Optional 1 x Slim type optical drive bay (optional SATA optical drive)	Optional 1 x Slim type optical drive bay (optional SATA optical drive)
DVD-ROM, DVD+/- RW Drive Option		Yes	Yes	Yes
I/O Ports		4 x COM ports (3 x RS-232, 1 x RS-232/422/485) 6 x USB V2.0 ports, 1 x PS/2 mouse & K/B, Mic-in/Line-in/ Line-out, 1 W speakers, 2 x Gigabit Ethernet ports, 1 D-SUB VGA port	4 x COM ports (3 x RS-232, 1 x RS-232/422/485), 4 x USB 2.0 ports, 1 x PS/2 mouse and keyboard interface, MIC in/Line in/Line out port, 1W speaker, 2 x Gigabit Ethernet ports, 1 x D-SUB VGA port	4 x COM ports, 1 x isolated RS-232/422/485, 3 x RS232, 1 x GPIO/RS-232 (8 channels, TTL level); by pin header 3 x USB3.0 + 2 x USB2.0 ports 2 x Gigabit Ethernet, 1 x D-SUB VGA port 1 x HDMI, 1 x Line-out, 1 x Mic-in, 2 x 1W speaker
Bus Expansion		1 x PCI-e Expansion Slot or 1 x PCI slot (Both are available as options) 1 x Mini PCI Socket, 1 x Mini PCI-e socket	1 x PCI-e Expansion Slot (PCI is available as option) 1 x Mini PCI Socket 1 x Mini PCI-e socket	Either: - one PCI + one PCIe x1 (standard) - one x PCIe x 4 (in the accessory box) - two PCIe x 1 (optional) - two PCI (optional)
Network (LAN)		2 x Gigabit Ethernet ports, Wake on LAN, boot from LAN and LAN teaming supported	2 x Gigabit Ethernet ports, Wake on LAN, boot from LAN and LAN teaming supported	2 x Gigabit Gigabit Ethernet connectors, Intel AMT supported (GbE1: Intel 82579LM, GbE2: Intel 82583V)
Power	Output Rating	150 W	150 W	150W
	Input Voltage	AC Model: 150 W Input voltage: 100 ~ 240 V_{AC}, 50 ~ 60 Hz, 2 ~ 4 A	100 ~ 240 V$_{AC}$, 50 ~ 60 Hz, 2 ~ 4 A	100 ~ 240 V$_{AC}$, 50/60Hz, 4 ~ 2 A
Touchscreen	Technology	Resistive	Resistive	Resistive
	Light Transmission	80% (Resistive)	80% (Resistive)	80% (Resistive)
	OS Support	Windows XPE/XP Pro, Vista	Window XP/XPE/Vista	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit
	Durability (Touches)	35 million (Resistive)	35 million (Resistive)	35 million (Resistive)
Watchdog Timer		255 level	255 level	255 level
Working Temperature		0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)
Front Panel Protection		IP65 compliant	IP65 compliant	IP65 compliant
Certification		CE, FCC, BSMI, CCC, UL, CB	BSMI, CE, FCC Class B, CCC	CE, FCC, BSMI, CCC, UL
Dimensions (W x H x D)		376 x 285.55 x 100.95 mm (14.80" x 11.24" x 3.97")	420 x 223.3 x 130.5 mm (16.54" x 12.72" x 5.12")	395.5 x 316.8 x 105.5 mm (15.6" x 12.5" x 4.15")
Weight		5.8 kg (12.77 lb)	6 kg (13.22lb)	6.5 Kg (14.32lb)
Page		26	28	30

NEW

Multi-functional Panel Computer		
PPC-177T	PPC-179T	PPC-6170
PCM-8200	PCM-8203	MIO-5290 PCM-8207
Supports Socket 478 based Core 2 Duo up to 2.16 GHz	LGA775 Socket-based Intel Core 2 Duo Processor up to 3.0 GHz	3rd Gen Core i CPU Celeron 847E 1.1 GHz Celeron 1020E 2.2 GHz Core i3-3120ME 2.4 GHz Core i5-3610ME 2.7 GHz
Supports up to 4 GB of 667 MHz DDR2 system memory	Supports up to 4 GB of 1333 MHz DDR3 system memory	DDR3 (1600 MHz) / DDRL (1333 MHz), supports up to 8 GB
SODIMM (socket x 2)	240-pin DIMM x 2	1 x 204-pin SODIMM
On-die 512 KB ~ 4 M	On-die 512 KB ~ 4 M	2MB/3MB
Supports 1 x internal CompactFlash Type ll socket, 2.5" SATA HDD drive	Supports 1 x internal CFast Type II socket, 1 2.5" SATA HDD drive	1 x 2.5" SATA bay Either one - Second 2.5" SATA bay (Intel RAID supported, optional) - Slim type 8X or above DVD +/- RW (optional)
17" Color TFT LCD	17" TFT LCD	17" TFT LCD (LED Backlight)
1280 x 1024	1280 x 1024	1280 x 1024
16.7M	16.7 M	262K
0.264 x 0.264	0.264 x 0.264	0.264 x 0.264
380	380	350
80°(left), 80°(right), 80°(up), 80°(down)	80°(left), 80°(right), 80°(up), 80°(down)	85°(left), 85°(right), 80°(up), 80°(down)
Yes	Yes	Yes
Yes	Yes	Yes
50,000 hrs	50,000 hrs	50,000 hrs
945GME	Intel Q45	Intel 3rd Gen Core i CPU+QM77
Optional 1 x Slim type optical drive bay (optional SATA optional drive)	Optional SATA slim type optical drive	Optional 1 x Slim type optical drive bay (optional SATA optional drive)
Yes	Yes	YES
4 x COM ports (3 x RS-232, 1 x RS-232/422/485) 4 x USB 2.0 ports, 1 x PS/2 mouse and keyboard interface, Mic-in/Line-in/Line-out port, 1 W speakers, 2 x Gigabit Ethernet ports, 1 x D-SUB VGA port	3 x serial ports: 2 x RS-232, 1 x RS-232/422/485, 6 x USB2.0 ports, Mic-in, Line-in, Line-out, 1 x D-SUB VGA port, 2 x Gigabit Ethernet ports	4 x COM ports, 1 x isolated RS-232/422/485, 3 x RS232, 1 x GPIO/RS-232 (8 channels, TTL level); by pin header, 3 x USB3.0 + 2 x USB2.0 ports, 2 x Gigabit Ethernet, 1 x D-SUB VGA port, 1 x HDMI 1 x Line-out, 1 x Mic-in, 2 x 1W speaker
1 x PCI-e Expansion Slot (PCI is available as option) 1 x Mini PCI Socket 1 x Mini PCI-e socket	1 x PCI + 1 x PCI-E through riser, 1 x Mini PCIe	Either: - one PCI + one PCIe x1 (standard) - one x PCIe x 4 (in the accessory box) - two PCIe x 1 (optional) - two PCI (optional)
2 x Gigabit Ethernet ports, Wake on LAN, boot from LAN and LAN teaming supported	2 x 10/100/1000 Mbps Ethernet	2 x Gigabit Gigabit Ethernet connectors, Intel AMT supported (GbE1: Intel 82579LM, GbE2: Intel 82583V)
150 W	220 W	150W
100 ~ 240 V$_{AC}$, 50 ~ 60 Hz, 2 ~ 4 A	100 ~ 240 V$_{AC}$ @ 50 ~ 60 Hz	100 ~ 240 V$_{AC}$, 50/60Hz, 4 ~ 2 A
Resistive	Resistive	Resistive
80% (Resistive)	80% (Resistive)	80% (Resistive)
Windows XPE/XP Pro, Vista, WES7	Windows XPE/XP Pro, Vista, WES7	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit
35 million (Resistive)	35 million (Resistive)	35 million (Resistive)
255 level	62 level, 1 ~ 62 seconds	255 level
0 ~ 50°C (32 ~ 122°F)	0 ~ 45°C (32 ~ 113°F)	0 ~ 50°C (32 ~ 122°F)
IP65 compliant	IP65 compliant	IP65 compliant
BSMI, CE, FCC Class B, CCC	BSMI, VCCI, UL, CE, FCC, Class B, CCC	CE, FCC, BSMI, CCC, UL
442 x 362 x 111.5 mm (17.4" x 14.25" x 4.39")	446 x 382 x 149.3 mm (17.56" x 15.04" x 5.88")	442.0 x 362.0 x 113.5 mm (17.4" x 14.25" x 4.47")
7.6 kg (16.74 lb)	11.0 kg (27.94 lb)	7.5Kg (16.52lb)
32	34	36

PPC-L62T

Features

- 6.5" TFT VGA LCD (LED Backlight)
- Intel® Atom™ N455 CPU on board
- System memory up to 2GB DDR3 SDRAM
- One CFast socket
- Fanless design and compact size
- Aluminum front bezel
- Dual Gigabit LAN support
- Adjust RS-232/422/485 through BIOS
- Automatic data flow control over RS-485

Introduction

The PPC-L62T is a 6.5" industrial-grade Panel PC for compact applications for machine builders. The PPC-L62T is highly reliable because of its fanless design. The IP65 compliant alumimum front bezel provides excellent protection especially in harsh environments (water and dust). The Dual Gigabit LAN provides reliable communication between mechine and control unit and the teaming function enhances fault tolerance and load balancing. PPC-L62T supports the most popular operating systems, such as Microsoft Windows XP, XP Embedded and Windows CE 6.0.
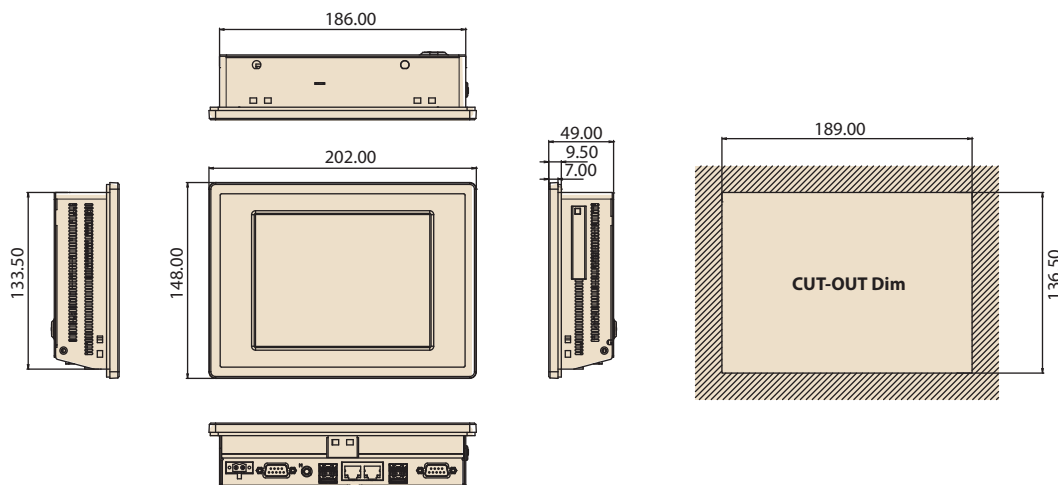
Specifications

Processor system	CPU	Intel Atom N455 1.66GHz Single Core CPU on board
	Memory	SO-DIMM x 1, DDR3 667, Max 2GB
	2nd Cache Memory	512 KB
	Chipset	Intel ICH8M
	SSD	CFast*1
	HDD	1 x 2.5" external SATA HDD module (Optional)
	I/O Ports	2 x Serial ports: RS-232x1;RS-232/422/485 x1; 4 x USB; 1 x Line-out
	Bus Expansion	1x MINI PCIe
	Network (LAN)	2 x 10/100/1000Mbps Ethernet
	Watchdog Timer	255 timer levels; setup by software
	Dimensions (W x H x D)	202 x 148 x 49 mm (7.9" x 5.82" x 1.92")
	Weight	1.5 kg (3.30 lb)
OS Support	OS Support	Win XPE, Win XP Pro, WES7 32 bit, Win CE 6.0
Power Supply	Input Voltage	15-24VDC
LCD Display	Display Type	6.5" TFT LCD (LED Backlight)
	Max. Resolution	640 x 480
	Colors	262K
	Dot Size (mm)	0.207 x 0.207
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)
	Luminance	700
	Brightness Control	Yes (by BIOS)
	Operating Temperature	-30 ~ 85°C (-22 ~ 185°F)
	Backlight Lifetime	50, 000 hrs
Touchscreen	Touch Type	Analog Resistive 5 wires
	Resolution	2048 x 2048
	Light Transmission	81%
	Controller	RS232 interface
	Software Driver Supports	Windows 7, XP, CE
	Durability (Touches)	36 millions

ADVANTECH **Fanless Panel PCs**

PPC-L62T

Dimensions

Unit: mm

186.00

202.00

49.00
9.50
7.00

133.50

148.00

189.00

CUT-OUT Dim

136.50

Specifications

| 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), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms, follow IEC 60068-2-64
	EMC	BSMI, CE, FCC Class B
	Safety	CB, CCC, BSMI, UL
	Front Panel Protection	IP65 compliant

Ordering Information

Part No.	Description
PPC-L62T-R80-AXE	Fanless Atom N455 PPC w/6.5" LCD+Res T/S+2LAN
PPC-L62T-080-AXE	Fanless Atom N455 PPC w/6.5" LCD+2LAN (w/o T/S)

Accessories

Part No.	Description
PS-DC19-L157E	19 V$_{DC}$ power adapter module for PPC-L128/ PPC-L157T
1700001524	POWER Cord 3P UL 10A 125V 180cm
170203183C	POWER Code 3P Europe (WS-010+083)183cm
1700008921	POWER CORD 3P/3P POWER SUPPLY 1.8M PSE
PPC-L62T-HDD-EXPE	HDD kit for PPC-L62T
PPC-L62T-WLANE	Wireless LAN Module for PPC-L62T
2070011145	Image WES09 PPC-L62T V4.0 24 multi-languages with SUSI Access
PPC-ARM-A03	PPC ARM VESA Standard
PPC-174T-WL-MTE	Wall mount kit for PPC series
2070011174	Image CE60 Pro PPC-L62T V1.0 ENG
2070011418	Image CE6.0 Pro PPC-L62T V1.0 (JPN) with SUSI Access
2070011441	Image CE 6.0 Pro PPC-L62T V1.0 (Traditional Chinese) with SUSI Access
2070011675	Image WES7E PPC-L62T V5.1.4 (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access

I/O Appearance
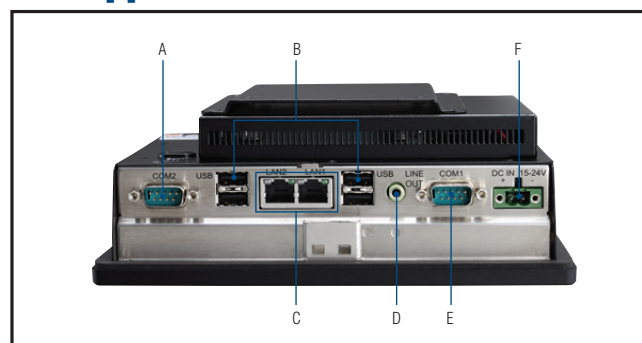
A. Serial Port(RS-232/422/485)
B. USB 2.0 x 4
C. 10/100/1000 Ethernet x 2
D. Audio Line-out
E. Serial Port(RS-232)
F. DC inlet

PPC-3100

10.4" Fanless Panel PC with Intel® Atom™ D2550 Processor

NEW

Features

- 10.4" TFT SVGA LED Panel with resistive touchscreen
- Embedded Intel® Atom™ processor D2550 1.86 GHz
- System memory up to 4 GB DDR3 1066 SDRAM
- Supports one internal SATA 2.5" HDD and 1 x mSATA socket
- Fanless design and low power consumption
- Automatic data flow control over RS-485
- Adjust RS-232/422/485 through BIOS
- COM1/COM2 pin9 RI/5V/12V adjustable through BIOS
- LED backlight Auto dimming

SUSIAccess · RoHS COMPLIANT 2002/95/EC · Microsoft® Windows® Embedded · CE · CCC · FC · cULus

Introduction

PPC-3100 is a new 10.4" Panel PC equipped with an Intel Atom processor D2550. Meeting high demands of harsh environments, the fanless design makes PPC-3100 more reliable in different kinds of applications for the machine building industry. In addition, the dual GbE LAN, 4 x serial ports, 4 x USB ports, and GPIO connector make it easier to connect to devices and be integrated into specific solutions. With a user friendly design it comes with an LED indicator on the front panel for power on/off, storage access, and LAN active status.
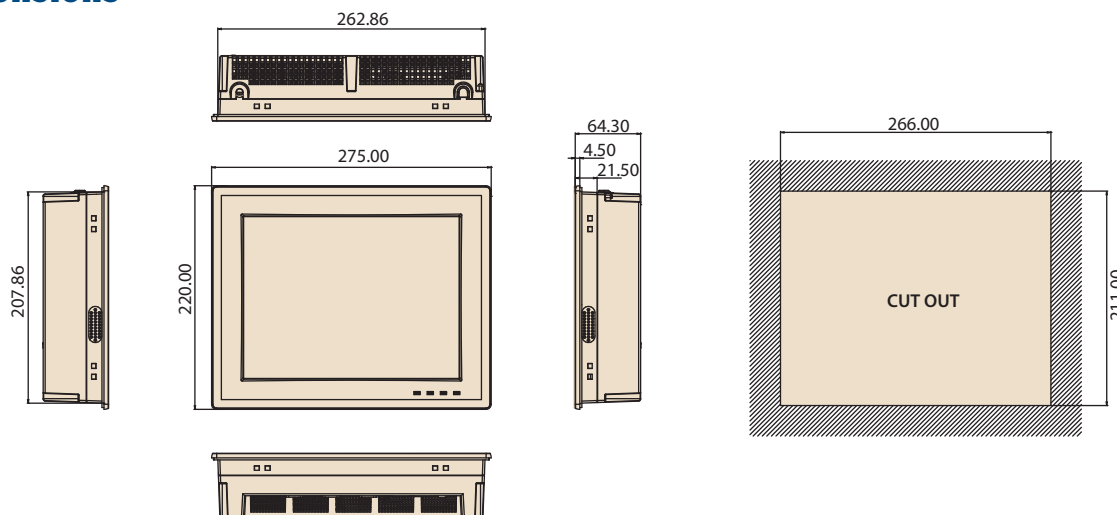
Specifications

Processor System	CPU	Intel Atom D2550 1.86 GHz 10W Dual Core CPU on board
	Memory	SODIMM x 1, DDR3 1066, Max 4 GB, 2 GB DDR3 pre-installed
	2nd Cache Memory	1 MB
	Chipset	Intel NM10
	Storage	mSATA*1
	HDD	1 x 2.5" SATA HDD Bay (Internal)
	I/O Ports	4 x Serial ports: 3 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) 4 x USB 2.0 ports 1 x Line-out, 1x MIC-in 1 x DB15 VGA 1 x DB9 GPIO port (8 pin programable)
	Bus Expansion	1x MINI PCIe
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet
	Speaker	2 x 1W speakers
	Watchdog Timer	255 timer levels; setup by software
	Dimensions (W x H x D)	275 x 220 x 64.3 mm (10.83" x 8.74" x 2.53")
	Weight	2.5 kg (5.51 lb)
OS Support	OS Support	Win XPE, Win XP Pro, WES7 32 bit, Win CE 7.0
Power Supply	Input Voltage	DC 12 ~ 30 V
LCD Display	Display Type	10.4" TFT LCD (LED Backlight)
	Max. Resolution	800 x 600
	Colors	262K
	Dot Size (mm)	0.264 x 0.264
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)
	Luminance(cd/m2)	400
	Brightness Control	Yes
	Operating Temperature	-20 ~ 70°C (-4 ~ 158°F)
	Backlight Lifetime	30, 000 hrs (typical)
Touchscreen	Touch Type	Analog Resistive 5-wire
	Resolution	2048 x 2048
	Light Transmission	81+/-3%
	Controller	RS-232 interface
	Software Driver Support	Windows 7, XP, CE
	Durability (Touches)	36 million

All product specifications are subject to change without notice

Dimensions

Unit: mm

262.86

275.00

64.30

4.50
21.50

207.86

220.00

266.00

211.00

CUT OUT

Specifications

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), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms, follow IEC 60068-2-64
	EMC	BSMI, CE, FCC Class B
	Safety	CB, CCC, BSMI, UL
	Front Panel Protection	IP65 compliant

Ordering Information

Part No.	Description
PPC-3100-R2GAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, 2 GB DDR3 pre-installed
PPC-3100-R4GAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, 4 GB DDR3 pre-installed
PPC-3100-X2GAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, w/o touch, 2 GB DDR3 pre-installed
PS-DC19-L157E	19V power adapter module
1700001524	Power cord 3P UL 10A 125V 1.8m
170203183C	Power cord 3P Europe (WS-010+083)183cm
1700008921	Power cord 3P/3P Power supply 1.8M PSE
* PPC-174T-WL-MTE	Wall mount kit for PPC series
* PPC-ARM-A03	PPC ARM VESA Standard
PPC-3100-VESAE	PPC-3100 VESA bracket
PPC-3100-WLANE	PCIe Half Mini Card WLAN module for PPC-3100 series
2070011747	Image XPE WES2009 PPC-3100 V4.3.1 24 multi-languages with SUSI Access
2070011748	Image WES7E PPC-3100 V5.1.3.1 (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access

* if you order Wall mount kit or ARM, please also order PPC-3100-VESAE at the same time.

I/O
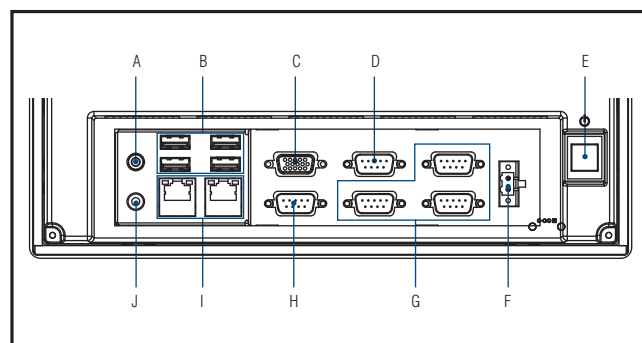
A. MIC in
B. 4 x USB
C. VGA
D. RS-232/422/485
E. Power S/W
F. DC-in
G. 3 x RS-232
H. GPIO
I. 2 x GbE
J. LINE out

PPC-L128T

Features

- 12.1" TFT XGA LCD with optional resistive touchscreen
- Embedded Intel® Atom™ processor N270 1.6 GHz
- Supports up to 2 GB DDR2 SDRAM
- Supports one internal SATA 2.5" HDD
- Support 4 USB 2.0 ports, Dual Gigabit Ethernet
- Optional PCI/PCIe x 1 expansion kit
- Fanless and ultra-low power consumption
- Automatic data flow control over RS-485 (COM2)

Introduction

The PPC-L128T is 12.1" Fanless panel PC that delivers high performance while consuming low power. The PPC-L128T operates with low noise and provides display resolutions up to 1024 x 768 (XGA) pixels. The PPC-L128T is equipped with dual Gigabit Ethernet connectors supporting either failover or LAN teaming. Advantech's customization services and optional accessories including wireless modules, battery packs, and SATA optical devices, allowing system integrators to design tailor-made solutions for a host of industrial applications. And PPC-L128T optionally supports a sunlight readable display, making it suitable for outdoor use.
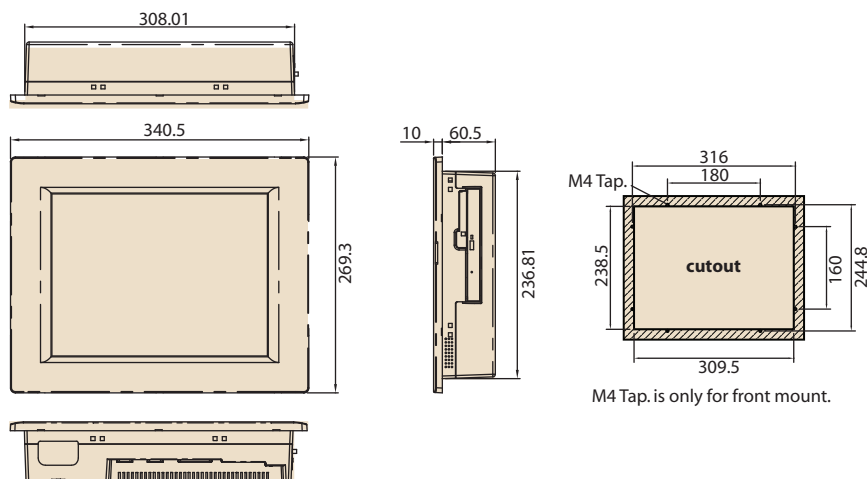
Specifications

Processor System	CPU	Intel Atom Processor N270 1.6 GHz	
	CPU Front Side Bus	533 MHz	
	Chipset	Intel 945GSE + Intel ICH7M	
	Secondary Cache	512 KB L2 Cache	
	Memory	200-pin DDR2 533 SODIMM x1 Up to 2 GB	
	DVD+/-RW	Optional (989KL128T00E)	
	SSD	Supports one CompactFlash Type II, socket	
	HDD	One internal SATA interface- 2.5" Type	
	Network (LAN)	2 x 10/100/1000 Mbps (RJ-45)	
	Fully Integrated I/O and Speakers	3 Serial Ports: RS-232 x 2, RS-232/422/485 x 1; 1 GPIO port 1 VGA Port ; PS/2 Mouse and Keyboard Line-in/ Line-out/ Mic-in Built-in 1W x 2 speakers, USB 2.0 ports x 4	
	Bus Expansion	1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot	
	Front Panel Protection	IP65 compliant	
	Weight	3.63 kg (7.98 lb)	
	Dimensions (W x H x D)	340.5 x 269.3 x 70.5 mm (13.41" x 10.6 x 2.78")	
OS Support		Win XPE, Win XP Pro, WES7 32 bit, CE 6.0 for R81 only	
Power Supply		12 ~ 24 V_{DC}	
		PPC-L128T-R80 series	PPC-L128T-R81 series
LCD Display	Display Type	12.1" Color TFT LCD	12.1" Color TFT LCD (LED backlight)
	Max. Resolution	1024 x 768	1024 x 768
	Colors	262 K	262 K
	Pixel Pitch (mm)	0.240 x 0.240	0.240 x 0.240
	Viewing Angle	160°/160°	160°/160°
	Luminance (cd/m^2)	450	600
	Brightness Control	N/A	Yes (by BIOS)
	Backlight Lifetime	50,000 hours	50,000 hours
Touchscreen (optional)	Type	Analog Resistive 5 wires (ELO)	Analog Resistive 5 wires (AMT), Anti-Corrosive type
	Resolution	2048 x 2048	2048 x 2048
	Light Transmission	80 %	80 %
	Controller	USB Interface	RS232 Interface (COM4)
	Durability (Touches)	35 million	35 million
Environmental Specifications	Operating Temperature	0-45°C (32-113°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, follow IEC 60068-2-64	
	EMC	CE, FCC Class B, BSMI	
	Safety	CE CB, UL, BSMI, CCC , VCCI	

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All product specifications are subject to change without notice.   Last updated : 15-May-2013

PPC-L128T

Dimensions

Unit: mm

308.01

340.5

269.3

10   60.5

236.81

M4 Tap.

316
180

238.5

cutout
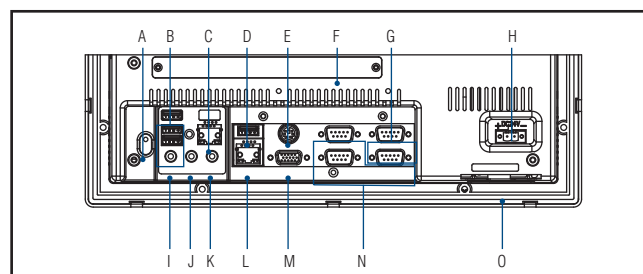
160

244.8

309.5

M4 Tap. is only for front mount.

Ordering Information

Part NO	Description
PPC-L128T-081-XE	Intel Atom processor N270 1.6 GHz Fanless panel PC with 12.1" TFT LCD (LED backlight)
PPC-L128T-R81-XE	PPC-L128T-081-XE with resistive touchscreen (LED backlight)
PPC-L128T-080-XE	Intel Atom processor N270 1.6 GHz fanless panel PC with 12.1" TFT LCD
PPC-L128T-R80-XE	PPC-L128T-080-XE with resistive touchscreen
PPC-L128T-R80-WXE	PPC-L128T-080-XE with resistive touchscreen (White)
PPC-L128T-RXPE0E	PPC-L128T w1G Memory/ Windows XPE XPE on 160G HDD
PPC-ARM-A03	VESA Stand ARM for PPC series
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-L126 STAND	Stand desktop stand for PPC-L126T/PPC-L127T
PPC-L128-EXPE	PCI/PCIe expansion kit for PPC-L128
PS-DC19-L157E	19V DC power adapter module for PPC-L128/PPC-L157
1700001524	Power cord 3P UL 10A 125V 1.8M
170203183C	POWER Code 3P Europe (WS-010+083)183cm
1700008921	POWER CORD 3P/3P POWER SUPPLY 1.8M PSE
989KL128T00E	Slim type DVD-RW Module for PPC-L128
989KL128T02E	Wireless LAN module for PPC-L128T
2070008770	XPE WES2009 PPC-L128T V4.0 24 multi-languages with SUSI Access (R80)
2070010364	CE 6.0 Pro PPC-L128T V1.3 (ENG) with SUSI Access (R81)
2070010549	XPE WES2009 PPC-L128T V4.0 24 multi-languages with SUSI Access (R81)
2070010816	WES7P SP1 x86 PPC-L128T V5.1 (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access (R81)
2070010817	WES7E SP1 x86 PPC-L128T V5.1 (ENG) with SUSI Access (R81)

I/O Appearance

A. Main power switch
B. USB 2.0 x 3
C. Ethernet jack
D. USB 2.0
E. PS/2 mouse and keyboard
F. PCI/PCIe expansion slot cover
G. GPIO port
H. DC inlet

I. Line-in jack
J. Line-out jack
K. Mic-in jack
L. Ethernet jack
M. VGA port
N. Serial ports
O. Battery door cover

PPC-3120

12.1" Fanless Panel PC with Intel® Atom™ D2550 Processor

NEW

Features

- 12.1" TFT XGA LED Panel with resistive touchscreen
- Embedded Intel® Atom™ processor D2550 1.86 GHz
- System memory up to 4 GB DDR3 1066 SDRAM
- Supports one internal SATA 2.5" HDD and 1 x mSATA socket
- Optional PCI/PCIe x1 expansion kit
- Fanless design and low power consumption
- Automatic data flow control over RS-485
- Adjust RS-232/422/485 through BIOS
- COM1/COM2 pin9 RI/5V/12V adjustable through BIOS
- LED backlight Auto dimming

SUSIAccess RoHS COMPLIANT 2002/95/EC Microsoft® Windows® Embedded CE CCC FC c(UL)us

Introduction

The PPC-3120 is a new 12.1" Panel PC equipped with an Intel Atom processor D2550. Meeting high demands of harsh environments, the fanless design makes PPC-3120 more reliable in different kinds of applications for the machine building industry. In addition, the dual GbE LAN, 4 x serial ports, 4 x USB ports, and GPIO connector make it easier to connect to devices and be integrated into specific solutions. With a user friendly design it comes with an LED indicator on the front panel for power on/off, storage access, and LAN active status.
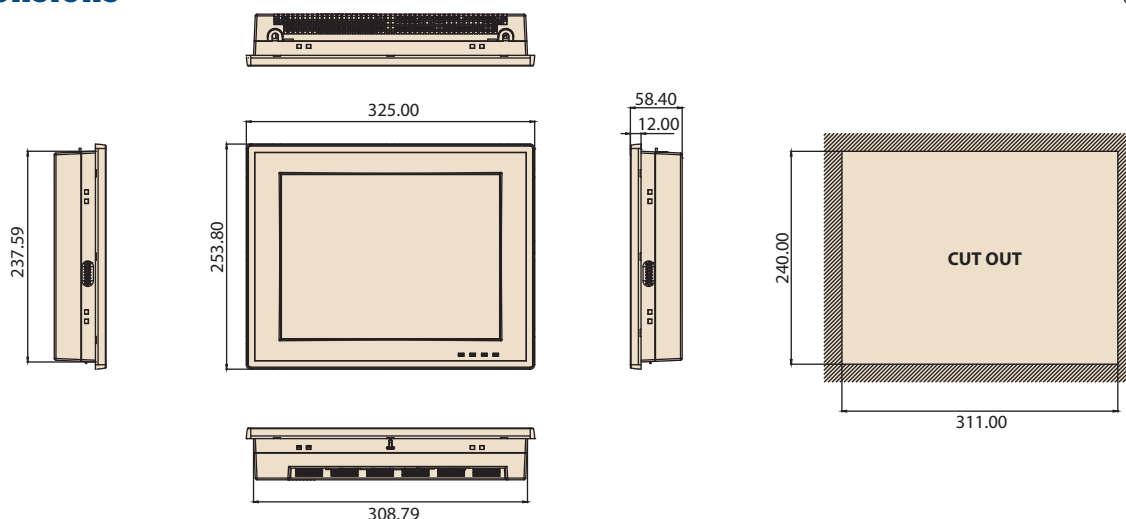
Specifications

Processor System	CPU	Intel Atom D2550 1.86 GHz 10W Dual Core CPU on board
	Memory	SODIMM x 1, DDR3 1066, Max 4 GB
	2nd Cache Memory	1 MB
	Chipset	Intel NM10
	Storage	mSATA*1
	HDD	1 x 2.5" SATA HDD Bay (Internal)
	I/O Ports	4 x Serial ports: 3 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) 4 x USB 2.0 ports 1 x Line-out, 1x MIC-in 1 x DB15 VGA 1 x DB9 GPIO port (8 pin programable)
	Bus Expansion	1x MINI PCI-e (Standard), 1 x PCI / 1 x PCI-e through riser (Optional)
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet
	Speaker	2 x 1W speakers
	Watchdog Timer	255 timer levels; setup by software
	Dimensions (W x H x D)	325 x 253.8 x 58.4 mm (12.79" x 10" x 2.3")
	Weight	3.3 kg (7.27 lb)
OS Support	OS Support	Win XPE, Win XP Pro, WES7 32 bit, Win CE 7.0
Power Supply	Input Voltage	DC 12 ~ 30 V
LCD Display	Display Type	12.1" TFT LCD (LED Backlight)
	Max. Resolution	1024 x 768
	Colors	262K
	Dot Size (mm)	0.24 x 0.24
	Viewing Angle	80 (left), 80 (right), 80 (up), 80 (down)
	Luminance (cd/m²)	600
	Brightness Control	Yes
	Operating Temperature	-30 ~ 80°C (-22 ~ 176°F)
	Backlight Lifetime	50,000 hrs (typical)
Touchscreen	Touch Type	Analog Resistive 5-wire
	Resolution	2048 x 2048
	Light Transmission	81+/-3%
	Controller	RS-232 interface
	Software Driver Support	Windows 7, XP, CE
	Durability (Touches)	36 million

PPC-3120

Dimensions

Unit: mm

325.00

237.59

253.80

58.40
12.00

240.00

CUT OUT

311.00

308.79

Specifications

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), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms, follow IEC 60068-2-64
	EMC	BSMI, CE, FCC Class B
	Safety	CB, CCC, BSMI, UL
	Front Panel Protection	IP65 compliant

Ordering Information

Part No.	Description
PPC-3120-R2GAE	Atom D2550 Fanless Panel PC with 12.1" XGA LED backlight, 2 GB DDR3 pre-installed
PPC-3120-R4GAE	Atom D2550 Fanless Panel PC with 12.1" XGA LED backlight, 4 GB DDR3 pre-installed
PPC-3120-X2GAE	Atom D2550 Fanless Panel PC with 12.1" XGA LED backlight, w/o touch, 2 GB DDR3 pre-installed
PS-DC19-L157E	19V power adapter module
1700001524	Power cord 3P UL 10A 125V 1.8m
170203183C	Power cord 3P Europe (WS-010+083)183cm
1700008921	Power cord 3P/3P Power supply 1.8M PSE
* PPC-174T-WL-MTE	Wall mount kit for PPC series
* PPC-ARM-A03	PPC ARM VESA Standard
* PPC-3100-STANDE	Desktop Stand for PPC-3100 series
PPC-3100-VESAE	PPC-3100 VESA bracket module
PPC-3100-WLANE	PCIe Half Mini Card WLAN module for PPC-3100 series
PPC-3120-EXPE	Add-on box for PCI or PCIe expansion (include PCI / PCIe riser card)

* if you order Wall mount kit / ARM / Desktop stand, please also order PPC-3100-VESAE at the same time.

I/O
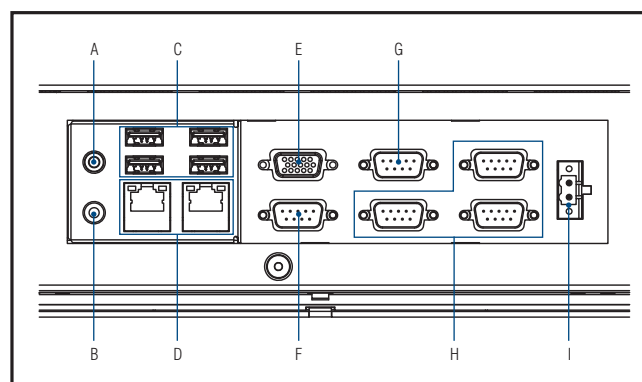
A. MIC in
B. Line Out
C. USB 2.0 x 4
D. 10/100/1000 Mbps Ethernet x 2
E. VGA Port
F. DIO Port
G. RS-232/422/485 x 1
H. RS-232 x 3
I. DC Inlet

ADVANTECH

PPC-L157T

Features

- 15" TFT XGA LCD with optional resistive touchscreen
- Embedded Intel® Atom™ processor N270 1.6 GHz
- System memory up to 2 GB DDR2 SDRAM
- Supports one internal SATA 2.5" HDD
- Supports six USB 2.0 ports (4 external/ 2 internal), Dual Gigabit Ethernet
- Optional PCI/PCIe x 1 expansion kit
- Fanless and ultra-low power consumption
- Optional smart battery module
- Automatic data flow control over RS-485 (COM2)

SUSIAccess RoHS COMPLIANT 2002/95/EC Windows® Embedded CE CCC FC cULus

Introduction

The PPC-L157T is a 15" Fanless panel PC that delivers high performance while consuming low power. The PPC-L157T operates with low noise and provides display resolutions up to 1024 x 768 (XGA) pixels. The PPC-L157T is equipped with dual Gigabit Ethernet connectors supporting either failover or LAN teaming. Advantech's customization services and optional accessories including wireless modules, battery packs, and SATA optical devices, allow system integrators to design tailor-made solutions to a host of industrial applications.
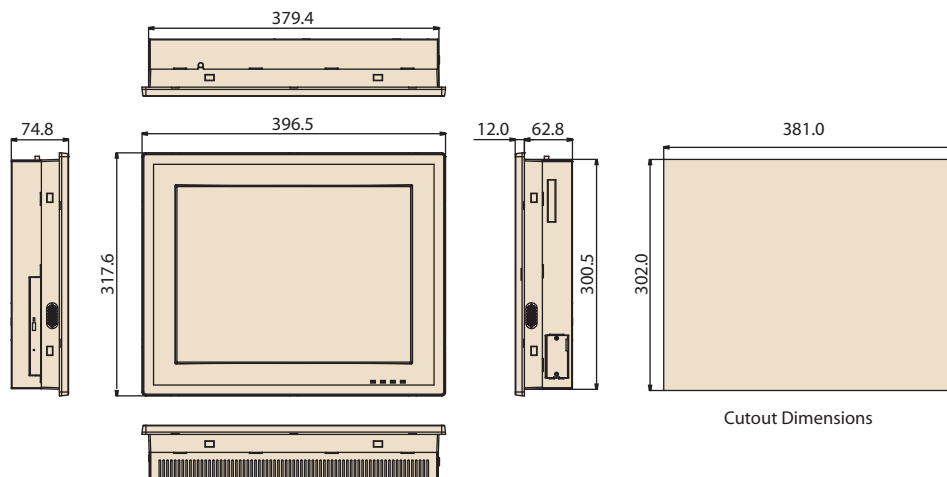
Specifications

Processor System	CPU	Intel Atom Processor N270 1.6 GHz	
	CPU Front Side Bus	533 MHz	
	Chipset	Intel 945GSE + Intel ICH7M	
	Secondary Cache	512 KB L2 Cache	
	Memory	200-pin DDR2 533 MHz SODIMM x1 Up to 2 GB, Compatible with 667 MHz	
	DVD+/-RW	989KL15702E	
	SSD	Supports one CompactFlash Type II, socket	
	HDD	One internal SATA interface- 2.5" Type	
	Network (LAN)	2 x 10/100/1000 Mbps (RJ-45)	
	Fully Integrated I/O and Speakers	3 Serial Ports: RS-232 x 2, RS-232/422/485 x 1; 1 GPIO port 1 VGA Port ; PS/2 Mouse and Keyboard Line-in/ Line-out/ Mic-in Built-in 1W x 2 speakers, USB 2.0 ports x 4	
	Bus Expansion	1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot	
	Front Panel Protection	IP65 compliant	
	Weight	6 kg (13.2 lb)	
	Dimensions (W x H x D)	396.5 x 317.6 x 74.8 (15.6" x 12.5" x 2.95")	
OS Support		Win XPE / Win XP Pro / WES7 32 bit / Windows 7 32bit	
Power Supply		12 -24 Vdc, 15-24 VDC with battery pack	
LCD Display	Display Type	15" Color TFT LCD (CCFL backlight for R80, LED backlight for R81)	
	Max. Resolution	1024 x 768	
	Colors	262 K	
	Pixel Pitch (mm)	0.297 x 0.297	
	Viewing Angle	160°/130°	
	Luminance (cd/m²)	350	
	Backlight Lifetime	50,000 hours	
Touchscreen (optional)	Type	Analog Resistive 5 wires (ELO) (for R80)	Analog Resistive 5 wires (AMT), Anti-Corrosive type (for R81)
	Resolution	2048 x 2048	2048 x 2048
	Light Transmission	80 %	80 %
	Controller	USB Interface	RS232 Interface (COM4)
	Durability (Touches)	35 million	35 million
Environmental Specifications	Operating Temperature	0-50°C (32-122°F); 0-35°C with battery pack	
	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	CE, FCC Class B, BSMI	
	Safety	CE CB, UL, BSMI, CCC , VCCI	

ADVANTECH **Fanless Panel PCs**

All product specifications are subject to change without notice

Last updated : 15-May-2013

PPC-L157T

Dimensions

Unit: mm

379.4

74.8

396.5

12.0 62.8

381.0

317.6

300.5

302.0

Cutout Dimensions

Ordering Information

Part NO	Description
PPC-L157T-080-XE	Intel Atom processor N270 1.6 GHz fanless panel PC with 15" TFT LCD
PPC-L157T-R80-XE	PPC-L157T-080-XE with resistive touchscreen
PPC-L157T-RXPE0E	PPC-L157T with 1G memory/Windows XPE on 160G HDD
PPC-ARM-A03	VESA Stand ARM for PPC series
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-L157-STANDE	Stand desktop stand for PPC-L157T
PPC-L157-EXPE	PCI/PCIe expansion kit for PPC-L157
PS-DC19-L157E	19V DC power adapter module for PPC-L128/PPC-L157
1760001580	Battery PACK 11.1V 4.4AH 3S2P (only for PPC-L157T-R81-XE)
1700001524	Power cord 3P UL 10A 125V 1.8M
989KL15700E	Wireless Module for PPC-L157T Series
989KL15702E	Slim type DVD-RW Module for PPC-L157T Series
PPC-L157T-R81-XE	Intel Atom processor N270 1.6 GHz fanless panel PC with 15" TFT LCD and AMT Anti-Corrosive touchscreen (LED backlight)
2070009824	XPE WES2009 for PPC-L157T V4.0 24MUI (for R80)
2070011575	XPE WES2009 V4.0, 24 multi-languages with SUSI Access (for R81)

I/O Appearance
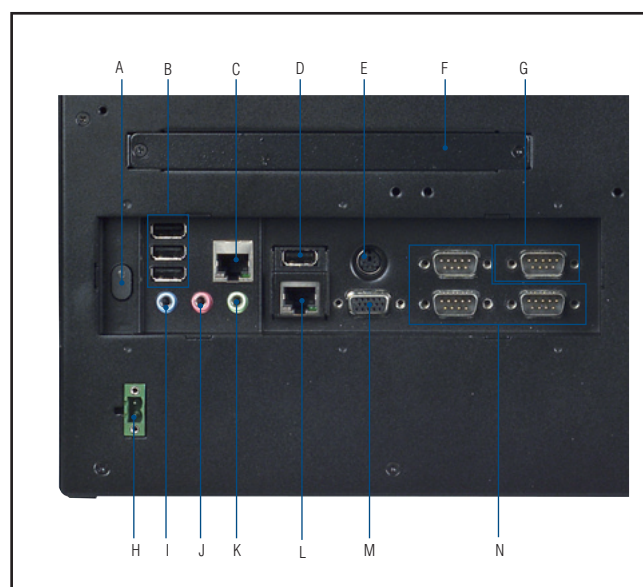
A. Main power switch
B. USB 2.0 x 3
C. Ethernet jack
D. USB 2.0
E. PS/2 mouse and keyboard
F. PCI/PCI-E expansion slot cover
G. GPIO port
H. DC inlet
I. Line-in jack
J. Line-out jack
K. Mic-in jack
L. Ethernet jack
M. VGA port
N. Serial ports

PPC-L158T

NEW

SUSIAccess RoHS COMPLIANT 2002/95/EC Microsoft® Windows® Embedded CE FC c(UL)us

Features

- 15" TFT XGA LCD with optional resistive touchscreen
- Embedded Intel® Atom™ processor, dual-core D525 1.8G
- System memory up to 2 x DDR3 800 MHz SODIMMs
- Supports one internal SATA 2.5" HDD
- Supports One Mini PCIe socket, Dual Gigabit Ethernet
- Either PCI/PCIe x 1 expansion kit
- Fanless and ultra-low power consumption
- One RS-232/422/485; (supporting Auto-flow control, BIOS-selectable)
- One RS-232/ GPIO (8 channels, TTL level); (by swapping pin header)

Introduction

The PPC-L158T is a 15" Fanless panel PC that delivers high performance while consuming low power. The PPC-L158T operates with low noise and provides display resolutions up to 1024 x 768 (XGA) pixels. The PPC-L158T is equipped with dual Gigabit Ethernet connectors, 8-channel GPIO function and either one PCI or one PCIe expansion slot. Advantech's customization services and optional accessories including wireless modules and SATA optical devices, allow system integrators to design tailor-made solutions for a host of industrial applications.
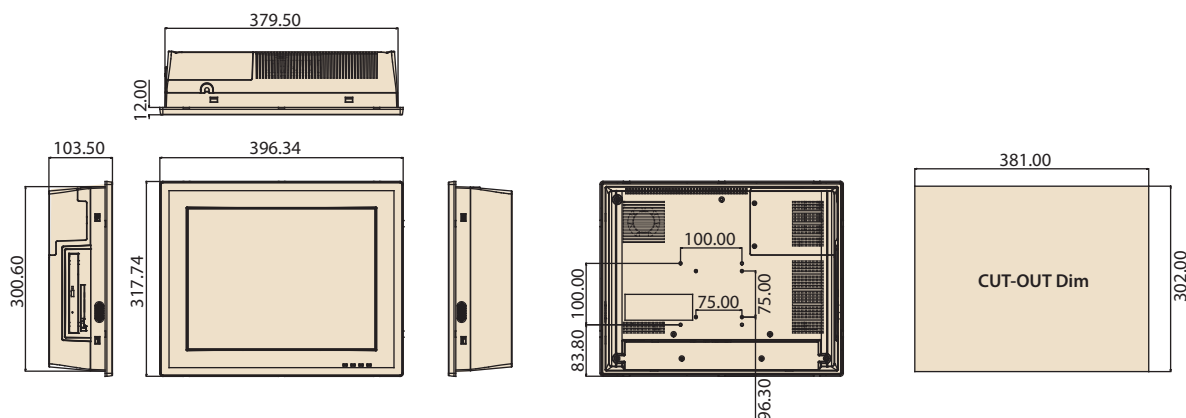
Specifications

	CPU		Intel Atom processor, dual-core D525 1.8G
	Chipset		D525 + ICH8M
	Secondary Cache		1MB L2 cache
	Memory		2 x DDR3 800 MHz SODIMMs (up to 2GB each socket), compatible with 1066/1333 MHz (does not support ECC and REG)
	DVD-RW Drive		Optional (989K017702E)
	SSD		Supports one CFast™ Type I, II socket
	HDD		One internal SATA interface- 2.5" Type
	Network (LAN)		2 x 10/100/1000 Mbps (RJ-45)
Processor System	Fully Integrated I/O and Speakers		4 x COM ports: 2 x RS-232, 1 x RS-232/422/485, 1 x RS232/ GPIO (8 channels, TTL level)* 4 x USB 2.0 ports Mic in/ Line out, 1W speaker - 2 x Gigabit Ethernet ports 1 x D-SUB VGA port 1 x PS/2 mouse and 1 x keyboard interface 1 x Parallel port (by an additional cable in the accessory box) * RS-232/422/485 - selected in BIOS and supporting RS-232/GPIO by swapping pinheader, Auto-flow control
	Bus Expansion		1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot
	Front Panel Protection		IP65 compliant
	Weight		6 kg (13.2 lb)
	Dimensions (W x H x D)		396.5 x 317.6 x 103.5 mm (15.6" x 12.5 x 4.08")
OS Support			Win XPE / Win XP Pro / WES7 32 bit / Windows 7 32 & 64 bit / CE6.0
Power Supply	DC	Input Voltage	15 ~ 24 V$_{DC}$
	AC	Output Rating	85 W (max.)
		Input Voltage	100 ~ 240 V$_{AC}$, 50 ~ 60 Hz, 1 ~ 2 A
	Display Type		15" Color TFT LCD
	Max. Resolution		1024 x 768
	Colors		262 K
LCD Display	Pixel Pitch (mm)		0.297 x 0.297
	Viewing Angle		160°/140°
	Luminance (cd/m²)		350
	Brightness Control		Yes
	Backlight Lifetime		50,000 hours
	Type		Analog Resistive 5-wire (AMT) Anti-Corrective type
	Resolution		2048 x 2048
Touchscreen (optional)	Light Transmission		80 %
	Controller		RS-232 interface
	Durability (Touches)		35 million
	Operating Temperature		0-50°C (32-122°F)
	Relative Humidity		10 ~ 95 % @ 40°C, non-condensing
Environmental Specifications	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		CE, FCC Class B, BSMI
	Safety		CE CB, UL, BSMI, CCC , VCCI

ADVANTECH | **Fanless Panel PCs**

Dimensions

Unit: mm

379.50

12.00

103.50

396.34

300.60

317.74

381.00

100.00

83.80 100.00

75.00

75.00

302.00

CUT-OUT Dim

96.30

Ordering Information

| Part NO	Description
PPC-L158T-090-AXE	Intel Atom processor, Dual Core processor D525 1.8G fanless panel PC with 15" TFT LCD (with 85W PSU inside)
PPC-L158T-R90-AXE	PPC-L158T-090-XE with resistive touchscreen (with 85W PSU inside)
PPC-L158T-090-DXE	Intel Atom Dual Core processor D525 1.8G fanless panel PC with 15" TFT LCD (DC Input Model)
PPC-L158T-R90-DXE	PPC-L158T-090-XE with resistive touchscreen (DC Input Model)
PPC-ARM-A03	VESA Stand ARM for PPC series
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-155T STAND	Stand kit for PPC-L158T/157/177/ series
PS-DC19-L157E	19V DC power adapter module for PPC-L128/PPC-L157
1700001524	Power cord 3P UL 10A 125V 1.8M (for adapter)
989K017700E	Optical disc drive kit for PPC-L158T/157/177 (W/O ODD)
989K017702E	DVD-RW (SATA) module for PPC-L158T/157/177
2070010541	Image XPE WES2009 PPC-L158 V4.0 24 MUI
2070011078	Image CE 6.0 Pro PPC-L158 V1.0 ENG
PPC-L158T-WLANE	Wireless Module for PPC-L158T Series
2070011241	Image WES7E SP1 32 bit PPC-L158T V5.1 English version
2070011242	Image WES7P SP1 32 bit PPC-L158T V5.1, 36 multi-language

I/O Appearance

AC Input Model

PPC-L158T-090-AXE
PPC-L158T-R90-AXE
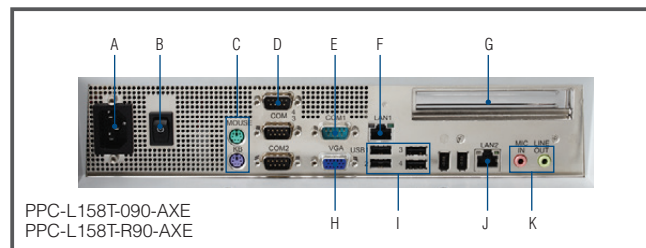
A: AC Inlet
B: Power Switch
C: PS2 Mouse x 1 / Keyboard x1
D: RS-232 x 2, RS-232/422/485 x 1
E: RS-232 x 1 (or GPIO x 1 by cable swapping)

F: 10/100/1000 Mbps Ethernet x 1
G: PCI Slot x 1 (or PCIe Slot x 1)
H: VGA Port
I: USB 2.0 x 4
J: 10/100/1000 Mbps Ethernet x 1
K: Line out/Mic in

DC Input Model

PPC-L158T-090-DXE
PPC-L158T-R90-DXE
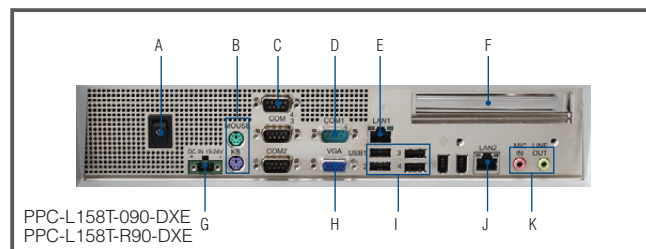
A: Power Switch
B: PS2 Mouse x 1 / Keyboard x 1
C: RS-232 x 1 (or GPIO x 1 by cable swapping)
D: RS-232 x 2, RS-232/422/485 x 1
E: 10/100/1000 Mbps Ethernet x 1
F: PCI Slot x 1 (or PCIe Slot x 1)

G: DC inlet
H: VGA Port
I: USB 2.0 x 4
J: 10/100/1000 Mbps Ethernet x 1
K: Line out/Mic in

PPC-125T

12" Panel PC with Intel® Core™2 Duo Processor

Features

- 12.1" TFT XGA (1024 x 768) LCD Panel
- Intel® Core™2 Duo processor up to 2.16 GHz
- System memory up to 4 GB (DDR2 200-pin SODIMM socket x 2)
- 1 x PCI slot or 1 x PCIe slot (both optional)
- One Mini PCIe slot
- Built-in CF card interface (IDE interface for OS booting)
- Two Gigabit Ethernet ports, support LAN teaming
- One RS-232/422/485; (supporting Auto-flow control, selecting by BIOS)

SUSIAccess RoHS COMPLIANT 2002/95/EC Microsoft® Windows® Embedded CE FC c(UL)us

Introduction

The PPC-125T is an Intel Core 2 Duo based Panel PC with 12.1" color TFT LCD. It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface makes it a great host for information appliances. Four serial COM supports auto-flow control PPC-125T advanced networking capabilities, and provides a great solution for versatile applications.
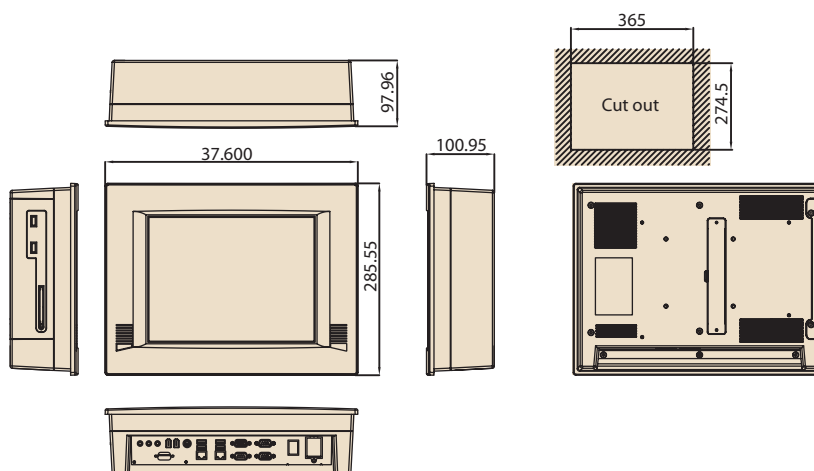
Specifications

Processor System	CPU	Supports mSocket 478 based Core 2 Duo up to 2.16 GHz
	CPU FSB	533/667 MHz
	Chipset	945GME + ICH7M
	Disk Drive Housing	Room for 1 x 2.5" SATA HDD
	Dimensions (W x H x D)	376 x 285.55 x 100.95 mm (14.80" x 11.24" x 3.97")
	Front Panel Protection	IP65 compliant
	Weight	5.6 kg (12.33 lb)
	HDD	SATA HDD interface (2.5" HDD bay)
	DVD+/-RW Drive	Optional external module with SATA DVD-RW Drive
	Memory	Socket x 2, supports up to 4 GB DDR2 SDRAM 200pin SODIMM
	Network (LAN)	2 x Gigabit Ethernet ports, support both wake on LAN and boot from LAN functions.
	I/O Ports	- 4 x COM ports: 3 x RS-232, 1 x RS-232/422/485 - 6 x USB 2.0 ports - 1 x PS/2 mouse and keyboard interface - MIC in / Line in / Line out port, 1 W speakers - 2 x Gigabit Ethernet ports - 1 x D-SUB VGA port
	Bus Expansion	PCI riser card & PCIe riser card are available as options, 1 x Mini PCI socket, 1 x Mini PCIe socket
OS Support	OS Support	Win XPE, Win XP Pro, WES7 with 32 bit, WES7 with 64 bit (only for T7400 CPU)
Environmental Specifications	Operating Temperature	0 ~ 50°C (32 ~ 122°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, follow IEC 60068-2-64
	EMC	BSMI, CE, FCC Class B, CCC
	Safety	CB, CE, UL
Power Supply — AC Model	Output Rating	150 W (max.)
	Input Voltage	100 ~ 240 V$_{AC}$, 50 ~ 60 Hz, 2 ~ 4 A
	Output Voltage	+3.3 V @ 4.5 A, +5 V @ 8.5 A, +12 V @ 7.0 A, +5 Vsb @ 1.5 A, -12 V @ 0.3 A
LCD Display	Display Type	Color TFT LCD
	Size (Diagonal)	12.1"
	Max. Resolution	1024 x 768
	Max. Colors or Grayscales	262 K
	Pixel Pitch (mm)	0.240 x 0.240
	Luminance (cd/m2)	450
	Contrast Ratio	700 : 1
	Viewing Angle	80°(left), 80°(right), 80°(up), 80°(down)
	Operating Temperature	-30 ~ +70°C
	LCD MTBF	50,000 hrs
Touchscreen (optional)	Type	5-wire Analog Resistive (USB interface)

ADVANTECH | **Multi-functional Panel PCs**

PPC-125T

Dimensions

Unit: mm

97.96

37.600

285.55

100.95

365

Cut out

274.5

I/O Appearance

Audio Jacks
KB/MS
USB
VGA
COM
Power switch

COM4
LAN
PCI Card slot
AC Inlet

Ordering Information

| Part No.	Description
PPC-125T-BAREE	12.1" Core 2 Duo Panel PC without T/S
PPC-125T-BARE-TE	12.1" Core 2 Duo Panel PC with Resi. T/S
PPC-125-STANDE	Stand kit for PPC-125 series
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-ARM-A03	PPC ARM VESA Standard
989K012500E	PCI-e riser card with rear add-on box with 1 x Slim SATA ODD bay
989K012502E	DVD-RW Drive Module for PPC-125 with 1 x PCI-e slot
989K012503E	PCI riser card with rear add-on box with 1 x Slim SATA ODD bay
1702002605	POWER CABLE 90D 220V EUROPEAN 250V/6A 1.8M
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M
2070006629	XPE FP2007 PPC-125T V3.01 (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access
2070006569	Image XPE FP2007 PPC-125T V3.01 ENG
2070011330	IMG XPE WES09 PPC-125T V4.0 24 multi-languages with SUSI Access

Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-125T complies with the IP65 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides an automatic protection function, which prevents the CPU from becoming overheated.

Expansion

To extend functionality, the PPC-125T is designed with either one expansion slot for PCI card or PCIe card and six USB 2.0 (Univeral Serial Bus) ports. With these expansion capabilities, the PPC-125T not only functions as an HMI, but also as a computing center on which to build your applications.
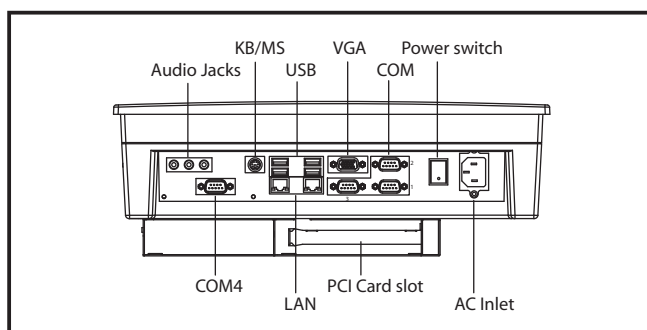
PPC-157T

Features

- Intel® Core™2 Duo processor up to 2.16 GHz
- System memory up to 4 GB 667 MHz DDR2 SODIMM socket x 2
- One PCIe Expansion Slot (PCI is available as an option)
- One Mini PCI socket, One Mini PCIe socket
- Built-in CF card interface (IDE interface for OS booting)
- Dual Gigabit Ethernet ports supporting LAN teaming
- One RS-232/ GPIO (8 channels, TTL level); (by swapping pin header)
- One RS-232/422/485; (supporting Auto-flow control, selecting by BIOS)

SUSIAccess RoHS COMPLIANT 2002/95/EC Microsoft® Windows Embedded CE FC cULus

Introduction

The PPC-157T is an Intel Core 2 Duo based Panel PC with 15" color TFT LCD. It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface makes it a great host for information appliances. Four serial ports and two Gigabit Ethernet ports give the PPC-157T advanced networking capabilities, and provide a great solution for versatile applications.
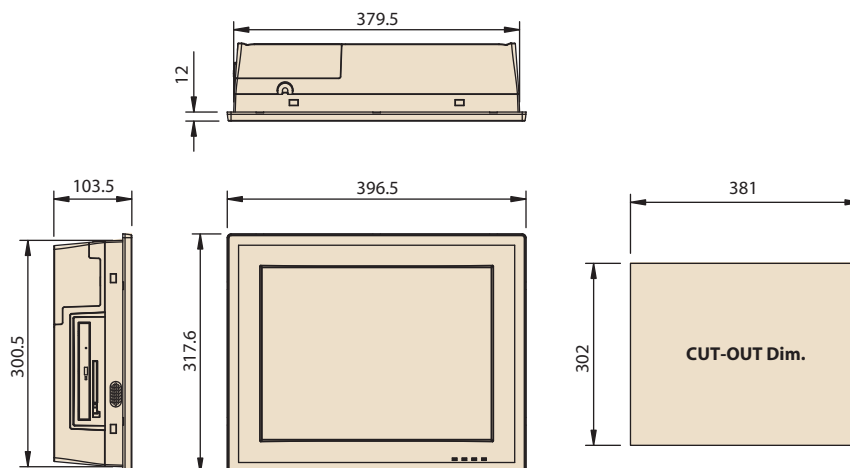
Specifications

Processor System	CPU	Supports mSocket 478 based Core 2 Duo up to 2.16 GHz
	CPU FSB	533/667 MHz
	Chipset	945GME + ICH7M
	Disk Drive Housing	Room for 1 x 2.5" SATA HDD
	Dimensions (W x H x D)	396.5 x 317.6 x 103.5 mm (15.6" x 12.5 x 4.08")
	Weight	6 kg (13.22lb)
	Front Panel Protection	IP65 compliant
	HDD	SATA HDD interface (2.5" HDD bay)
	DVD+/-RW Drive	Optional SATA 8X or above DVD+/-RW Drive, Optional optical drive bay
	Memory	Supports up to 4 GB of 667 MHz DDR2 SODIMM system memory (socket x 2)
	Network (LAN)	2 x Gigabit Ethernet ports, Wake on LAN, boot from LAN and LAN teaming supported
	I/O Ports	- 4 x COM ports: 2 x RS-232, 1 x RS-232/422/485, - 2 x Gigabit Ethernet ports 1 x RS-232/ GPIO (8 channels, TTL level)* - 1 x D-SUB VGA port - 4 x USB 2.0 ports - 1 x PS/2 mouse and keyboard interface - Mic in/ Line out / Line in, 1W speaker
		* RS-232/422/485 - selecting by BIOS and supporting Auto-flow control, RS-232/GPIO - by swapping pin header
	Bus Expansion	1 x PCI-e Expansion Slot (PCI is available as an option), 1 x Mini PCI socket, 1 x Mini PCI-e socket
OS Support	OS support	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit (64 bit only for T7400)
Environmental Specifications	Operating Temperature	0 ~ 50°C (32 ~ 122°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 B, CCC
	Safety	CB, CE, UL
Power Supply AC Model	Output Rating	150 W (max.)
	Input Voltage	100 ~ 240 V$_{AC}$, 50 ~ 60 Hz, 2 ~ 4 A
	Output Voltage	+3.3 V @ 4.5 A, +5 V @ 8.5 A, +12 V @ 7.0 A, +5 Vsb @ 1.5 A, -12 V @ 0.3 A
LCD Display	Display Type	Color TFT LCD
	Size (Diagonal)	15"
	Max. Resolution	1024 x 768
	Max. Colors or Grayscales	262K
	Pixel Pitch (mm)	0.297 x 0.297
	Luminance (cd/m²)	350
	Contrast Ratio	400:1
	Viewing Angle	80°(left), 80°(right), 70°(up), 60°(down)
	LCD MTBF	50,000 hrs
Touchscreen (optional)	Type	5-wire Analog Resistive (USB interface)

ADVANTECH **Multi-functional Panel PCs**

Dimensions

Unit: mm

379.5

12

103.5

396.5

381

300.5

317.6

302

CUT-OUT Dim.

Ordering Information

| Part No.	Description
PPC-157T-BAREE	15" C2D Based PPC without T/S
PPC-157T-BARE-TE	15" C2D Based PPC with Resistive T/S
PPC-155T STAND	Stand kit for PPC-155/157/175/177 series
PPC-ARM-A03	PPC ARM VESA Standard
PPC-174T-WL-MTE	Wall mount kit for PPC series
1702002605	Power cord 90D 220V EUROPEAN 250V/6A, 1.8M
1702002600	Power cord UL/CSA (USA) 180D 125V/10A 1.83M
989K017700E	Optical disc drive kit for PPC-157/177 (W/O ODD)
989K017702E	DVD-RW (SATA) module for PPC-157/177
989K070601E	PCI riser card for PPC-157/177
PPC-L158T-WLANE	802.11 b/g/n RT5390 1T1R Full Size Mini PCIe for PPC-L158/157/177 Series
2070011562	XPE WES2009 V4.3, 24 multi-language with SUSI Access

Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-157T complies with the IP65 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides an automatic protection function, which prevents the CPU from becoming overheated.

Expansion

To extend functionality, the PPC-157T is designed with one PCI-e expansion Slot (PCI is available as option) and Four USB 2.0 (Univeral Serial Bus) ports. With these expansion capabilities, the PPC-157T not only functions as an HMI, but also as a computing center on which to build your applications.

I/O Appearance

A   J   B   C   D   E   F

G   H   I
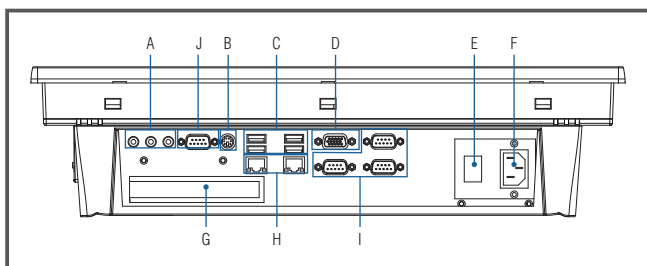
A: Line in/Line out/Mic in
B: PS2 Mouse & Keyboard
C: USB 2.0 x 4
D: VGA Port
E: Power Switch

F: AC Inlet
G: PCI Slot x 1
H: 10/100/1000 Base-T Ethernet x 2
I: RS-232 x 3 (including RS232/422/485 x 1, COM2)
J: RS-232/GPIO (by swapping pin header)

PPC-6150

15" Panel PC with Intel® Core™ i3 / i5 / Celeron® Processor

NEW

Features

- Intel® Core™ i3, i5, Celeron 847E and 1020E + Intel QM77 PCH
- 1X DDR3/DDR3L SODIMM support to 8 GB
- Multiple expansion slots including one PCIe x4, 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; (selectable in by BIOS)
- One GPIO/RS-232 (8 channels, TTL level); (by swapping pin header)
- Dual GbE, supports Intel AMT8.0
- Supports iManager, SUSIAccess and Embedded Software APIs

Introduction

The PPC-6150 is a Panel PC with an Intel Core i3/i5 or Celeron processor, and a 15" color TFT LCD panel. It features extremely high computing power, modular design, excellent connectivity, and can support virtually any application. 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-6150 highly reliable, and provide a great solution for a wide range of applications.
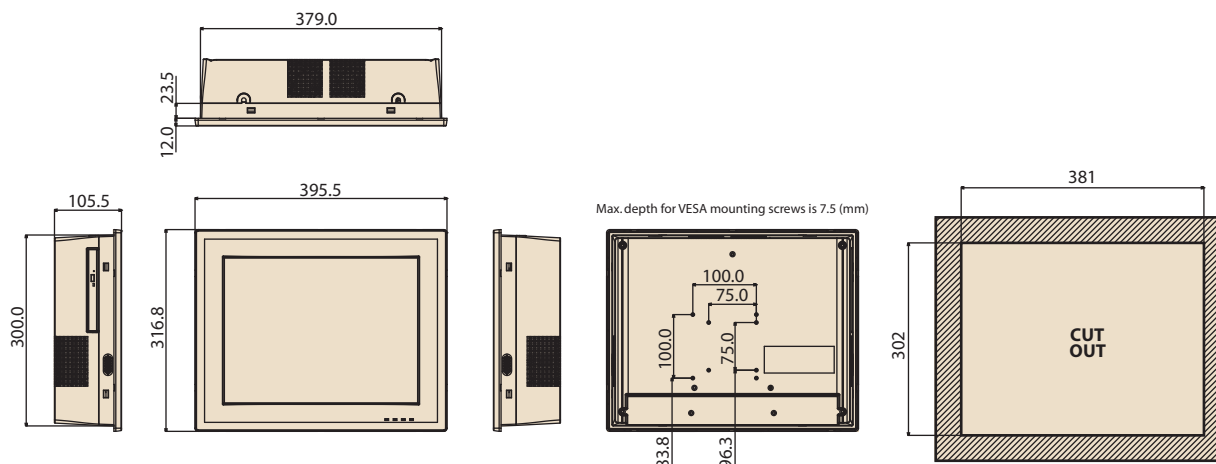
Specifications

Processor System	Intel	Core i5-3610ME	Core i3-3120ME	Celeron 847E	Celeron 1020E
	Frequency	2.7 GHz	2.4 GHz	1.1 GHz	2.2 GHz
	L3 Cache	4M	3M	2M	2M
	Chipset	Intel QM77			
	Memory	1 x 204-pin SODIMM, DDR3 (1600 MHz) / DDRL (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)			
	Network (LAN)	2 x Gigabit Gigabit Ethernet connectors, Intel AMT supported (GbE1- Intel 82579LM, GbE2 – Intel 82583V)			
	I/O ports	- 4 x COM ports, 1 x isolated RS-232/422/485, 3 x RS232 - 1 x GPIO/RS-232 (8 channels, TTL level); by pin header - 3 x USB3.0 + 2 x USB2.0 ports		- 2 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) - one x PCIe x 4 (in the accessory box)		- 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	395.5 x 316.8 x 105.5 (mm) (15.6" x 12.5" x 4.15")			
	Weight	6.5 Kg (14.32lb)			
OS Support	OS Support	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit			
Power Supply	Output Rating	150 W (max.)			
	Input Voltage	100 - 240V$_{AC}$, 50/60Hz, 4-2A			
	Power Consumption	With Core i5-3610ME is 61W With Core i3-3120ME is 50W With Celeron 847E is 48W (Burn-in test 7.0 in Windows 7 32-bit)			
LCD Display	Display Type	15" TFT LCD (LED Backlight)			
	Max. Resolution	1024 x 768			
	Colors	262K			
	Dot Size (mm)	0.297 x 0.297			
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)			
	Luminance(cd/m2)	350			
	Contrast Ratio	700			
	Operating Temperature	-30 ~ 85°C			
	Backlight Lifetime	50, 000 hrs (typical)			

ADVANTECH

Multi-functional Panel PCs

Last updated : 15-May-2013

PPC-6150

Dimensions

Unit: mm

379.0

23.5

12.0

105.5

300.0

395.5

316.8

Max. depth for VESA mounting screws is 7.5 (mm)

100.0
75.0
100.0
75.0

83.8

96.3

381

302

CUT OUT

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-6150-Ri5AE	Intel Core i5-3610ME (2.7G) Panel PC with 15" XGA LED backlight and 5-wire resistive T/S, w/o memory
PPC-6150-Ri3AE	Intel Core i3-3120ME (2.4G) Panel PC with 15" XGA LED backlight and 5-wire resistive T/S, w/o memory
PPC-6150-RC8AE	Intel Celeron 847E (1.1G) Panel PC with 15" XGA LED backlight and 5-wire resistive T/S, w/o memory
PPC-6150-WLANE	WiFi Module with Intel 6205 support 802.11 abgn, 2T2R
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-155T STAND	Stand kit for PPC-6150/PPC-6170
1702002605	Power cord 90D 220V EUROPEAN 250V/6A, 1.8M
1702002600	Power cord UL/CSA(USA) 180D 125V/10A 1.83M
2070011757	WES 7 32-bit (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access
2070011758	WES 7 64-bit (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access
PPC-6150-RC10AE	Intel Celeron 1020E (2.2G) Panel PC with 15" XGA LED backlight and 5-wire resistive T/S, w/o memory

I/O Placement

A B C D E F G

K L K J I H
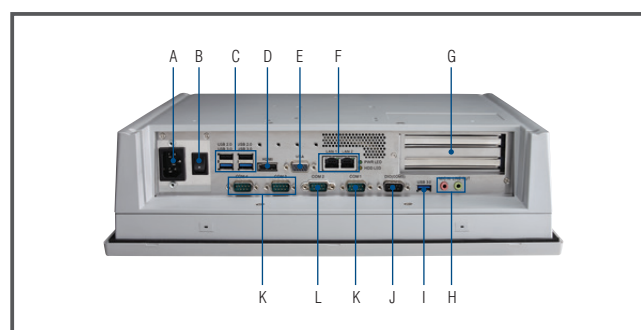
A: AC Inlet
B: Power Switch
C: USB 3.0 x 2, USB 2.0 x 2
D: HDMI
E: VGA
F: Gigabit Ethernet x 2

G: 2 Expansion slots
H: Line out/ Mic in
I: USB 3.0 x 1
J: GPIO / RS-232 (by swapping pin header)
K: RS-232 x 3
L: Isolated RS-232/422/485 (selecting by BIOS)

PPC-177T

Features

- Intel® Core™2 Duo processor up to 2.16 GHz
- System memory up to 4 GB 667 MHz DDR2 SODIMM socket x 2
- One PCIe Expansion Slot (PCI is available as an option)
- One Mini PCI socket, One Mini PCIe socket
- Built-in CF card interface (IDE interface for OS booting)
- Dual Gigabit Ethernet ports supports LAN teaming
- One RS-232/ GPIO (8 channels, TTL level); (by swapping pin header)
- One RS-232/422/485; (supporting Auto-flow control, selecting by BIOS)

SUSIAccess | RoHS COMPLIANT 2002/95/EC | Microsoft® Windows® Embedded | CE FC c(UL)us

Introduction

The PPC-177T is an Intel® Core 2 Duo based Panel PC with 17" color TFT LCD. It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface makes it a great host for information appliances. Four serial ports and two Gigabit Ethernet ports give the PPC-177T advanced networking capabilities, and provide a great solution for versatile applications.
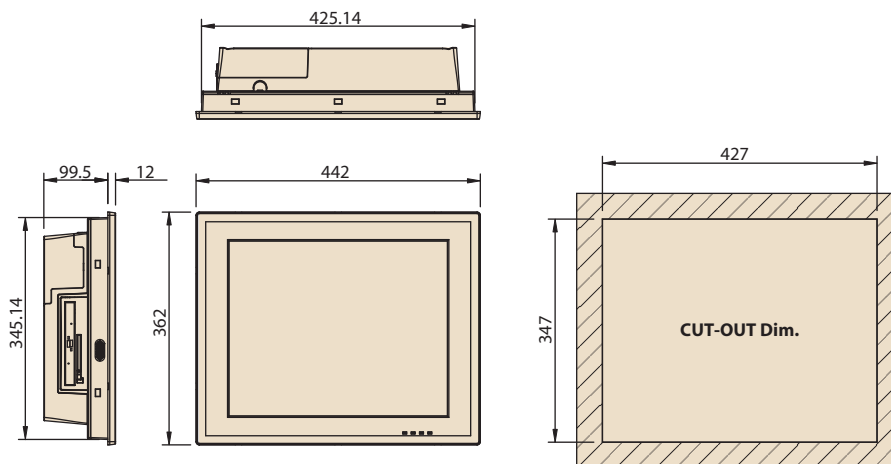
Specifications

Processor System	CPU	Supports mSocket 478 based Core 2 Duo up to 2.16 GHz
	CPU FSB	533/667 MHz
	Chipset	945GME + ICH7M
	Disk Drive Housing	Room for 1 x 2.5" SATA HDD
	Dimensions (W x H x D)	442 x 362 x 111.5mm (17.4" x 14.25" x 4.39")
	Weight	7.6 kg (16.74 lb)
	Front Panel Protection	IP65 compliant
	HDD	SATA HDD interface (2.5" HDD bay)
	DVD+/-RW Drive	Optional SATA 8X or above DVD+/-RW Drive, Optional optical drive bay
	Memory	Supports up to 4 GB of 667 MHz DDR2 SODIMM system memory (socket x 2)
	Network (LAN)	2 x Gigabit Ethernet ports, Wake on LAN, boot from LAN and LAN teaming supported

	I/O Ports	- 4 x COM ports: 2 x RS-232, 1 x RS-232/422/485, - 2 x Gigabit Ethernet ports
		  1 x RS-232/ GPIO (8 channels, TTL level)* - 1 x D-SUB VGA port
		- 4 x USB 2.0 ports - 1 x PS/2 mouse and keyboard interface
		- Mic in/ Line out / Line in, 1W speaker
		
		* RS-232/422/485 - selecting by BIOS and supporting Auto-flow control
		  RS-232/GPIO - by swapping pin header

	Bus Expansion	1 x PCIe Expansion Slot (PCI is available as option), 1 x Mini PCI socket, 1 x Mini PCI-e socket
OS Support	OS Support	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit (64 bit only for T7400)
Environmental Specifications	Operating Temperature	0 ~ 50°C (32 ~ 122°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 B, CCC
	Safety	CB, CE, UL
Power Supply AC Model	Output Rating	150 W (max.)
	Input Voltage	100 ~ 240 V$_{AC}$, 50 ~ 60 Hz, 2 ~ 4 A
	Output Voltage	+3.3 V @ 4.5 A, +5 V @ 8.5 A, +12 V @ 7.0 A, +5 Vsb @ 1.5 A, -12 V @ 0.3 A
LCD Display	Display Type	Color TFT LCD
	Size (Diagonal)	17"
	Max. Resolution	1280 x 1024
	Max. Colors or Grayscales	16.7M
	Pixel Pitch (mm)	0.264 x 0.264
	Luminance (cd/m²)	380
	Contrast Ratio	800:1
	Viewing Angle	80°(left), 80°(right), 80°(up), 80°(down)
	LCD MTBF	50,000 hrs
Touchscreen (optional)	Type	5-wire Analog Resistive (USB interface)

ADVANTECH | **Multi-functional Panel PCs**

All product specifications are subject to change without notice   Last updated : 15-May-2013

Dimensions

425.14

99.5   12   442

345.14   362

427

347

CUT-OUT Dim.

Ordering Information

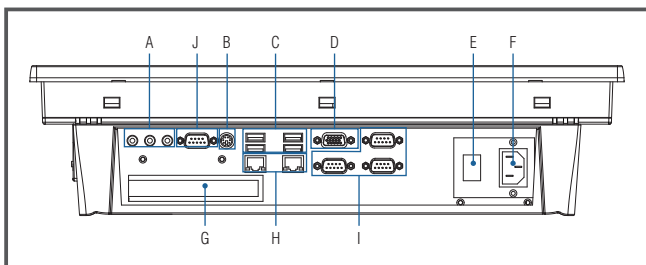| Part No.	Description
PPC-177T-BAREE	17" Core 2 Duo Based Panel PC without T/S
PPC-177T-BARE-TE	17" Core 2 Duo Based Panel PC with Resistive T/S
PPC-155T STAND	Stand kit for PPC-155/157/175/177 series
PPC-ARM-A03	PPC ARM VESA Standard
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-175 RACK-MT	Rack mount kit for PPC-175/177 series
1702002605	Power cord 90D 220V EUROPEAN 250V/6A, 1.8M
1702002600	Power cord UL/CSA (USA) 180D 125V/10A 1.83M
989K017700E	Optical disc drive kit for PPC-177T (W/O ODD)
989K017702E	DVD-RW (SATA) module for PPC-177T
989K070601E	PCI riser card for PPC-177T
PPC-L158T-WLANE	802.11 b/g/n RT5390 1T1R Full Size Mini PCIe for PPC-L158/157/177 Series
2070011804	XPE WES2009 V4.3, 24 multi-language with SUSI Access

Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-177T complies with the IP65 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides an automatic protection function, which prevents the CPU from becoming overheated.

Expansion

To extend functionality, the PPC-177T is designed with one PCI-e expansion Slot (PCI is available as option) and Four USB 2.0 (Univeral Serial Bus) ports. With these expansion capabilities, the PPC-177T not only functions as an HMI, but also as a computing center on which to build your applications.

I/O Appearance

A   J   B   C   D   E   F

G   H   I

A: Line in/Line out/Mic in
B: PS2 Mouse & Keyboard
C: USB 2.0 x 4
D: VGA Port
E: Power Switch

F: AC Inlet
G: PCI Slot x 1
H: 10/100/1000 Base-T Ethernet x 2
I: RS-232 x 3 (including RS232/422/485 x 1, COM2)
J: RS-232/GPIO (by swapping pin header)

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PPC-179T

Features

- 17" TFT SXGA LCD

- Intel® Core™2 Duo LGA775 Socket-based processor up to 3.0 GHz

- Supports 240-pin DDR3 1333/1066 DIMM x2 Up to 4 GB

- Rugged die-cast aluminum housing with removable plastic front bezel

- Supports One Mini PCIe socket, Dual Gigabit Ethernet

- One PCI and one PCIe expansion slot

- One RS-232/422/485; (supporting Auto-flow control, jumper-selected)

SUSIAccess RoHS Windows Embedded CE FC ᶜᵁᴸᵤₛ

Introduction

PPC-179T is a top performing and highly expandable panel PC. Equipped with a 17" Color TFT LCD, it features high performance, multimedia devices, connectors, and 2 expansion sockets (PCI and PCIe) for high expansion capacity. Because of its multifunctional design, the PPC-179T meets demands from multimedia applications and interactive kiosks that require big displays and powerful computing performance.
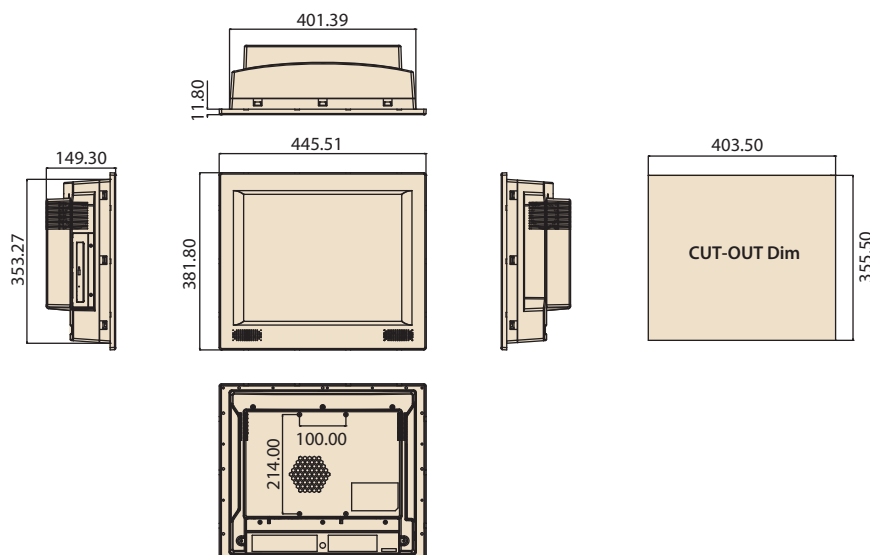
Specifications

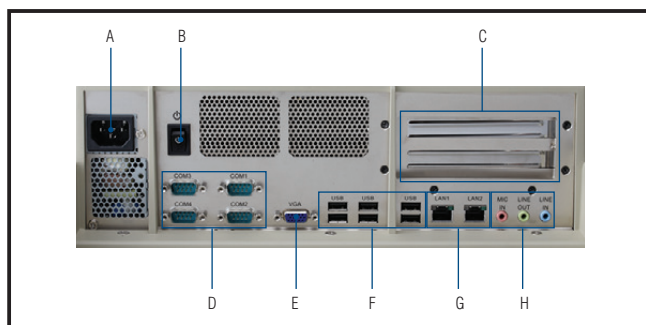|		
Processor System	CPU	Supports LGA775 Socket-based Intel Core 2 Duo Processor up to 3.0 GHz
	Dimensions (W x H x D)	446 x 382 x 149 mm (17.56" x 15.04" x 5.87")
	Weight	10 kg (22 lb)
	Front Panel Protection	IP65 compliant
	HDD	One internal SATA interface - 2.5" Type
	DVD+/-RW Drive	Equipped with one slim 8x SATA DVD +/- RW (BLACK)
	Memory	Supports 240-pin DDR3 1333/1066 DIMM x2 Up to 4 GB (only supports 64X8 and 128X8, not for 256X8)
	Network (LAN)	2 x 10/100/1000 Mbps (RJ-45)
	I/O ports	- 4 x serial ports: 3 x RS-232, 1 x RS-232/422/485 - 6 x USB2.0 ports - Mic-in, Line-in, Line-out, 1W speaker - 1 x D-SUB VGA port
	Bus Expansion	1 x PCI + 1 x PCIe (standard) , 2 x PCI (in the accessory box), 1 x Mini PCI-e socket
Environmental Specifications	Operating Temperature	0 ~ 45°C (32 ~ 113°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, VCCI, CE, FCC Class B, CCC
	Safety	CB, CE, UL
Touchscreen (Optional)	Types	Analog Resistive
	Resolution	2048 x 2048
	Light Transmission	75%
	Controller	RS-232 interface, (COM6)
	Power Consumption	+5 V @ 200 mA
LCD Display	Display Type	Color TFT LCD
	Size (Diagonal)	17"
	Max. Resolution	1280 x 1024
	Max. Colors or Grayscales	16.7M
	Pixel Pitch (mm)	0.264 x 0.264
	Luminance (cd/m²)	380
	Contrast Ratio	1000:1
	Viewing Angle	80°(left), 80°(right), 80°(up), 80°(down)
	LCD MTBF	50,000 hrs
Power Supply	Output Rating	220W (max.)
	Input Voltage	100 ~ 240 VAC @ 50 ~ 60Hz
	Output Voltage	+3.3 V @ 14.0A, +5 V @ 16.0A, +12 V @ 16 A + 10 A, -12 V @ 0.8 A, +5 Vsb @ 2.5 A

ADVANTECH **Multi-functional Panel PCs**

All product specifications are subject to change without notice

Last updated : 15-May-2013

Dimensions

Unit: mm

401.39

11.80

149.30

353.27

445.51

381.80

403.50

CUT-OUT Dim

355.50

214.00

100.00

Ordering Information

Part No.	Description
PPC-179T-BAREE	Panel PC with 17" TFT LCD display (resolution: 1280 x 1024)
PPC-179T-BARE-TE	PPC-179T with resistive touchscreen
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-174 RACK-MT	19" Rack Mounting kit for PPC-174 (9U)
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M
1702002605	Power Cable 90D 220V EUROPEAN 250V/6A 1.8M
2070010804	XPE WES2009 V4.0, 24 multi-languages

Feature Details

Protection
The PPC-179T is robust enough to withstand harsh environments on factory floors and in an external environment. The die-cast housing also acts as a heat sink to prevent the system from overheating.

Networking
Four serial ports and dual 10/100/1000 Mbps Ethernet port give the PPC-179T advanced networking capabilities and provide the best solution for versatile applications.

Expansion
To extend its functionality, the PPC-179T is designed with two expansion slots for one PCI and one PCIe card, one Mini PCIe slot, six USB 2.0 (Universal Serial Bus) ports, four COM ports. With these expansion capabilities, the PPC-179T not only functions as an HMI, but also as a computing center around which to build your application.

I/O Appearance

A. AC inlet
B. Power switch
C. PCI expansion x 1, PCIe expansion x 1
D. RS232 x 3, RS232/422/485 x 1

E. VGA port
F. USB2.0 x 6
G. 10/100/1000 Mbps Ethernet x 2
H. Line-in/Line-out/Mic-in

PPC-6170

17" Panel PC with Intel® Core™ i3 / i5 / Celeron® Processor

NEW

Features

- Intel® Core™ i3, i5, Celeron 847E and 1020E + Intel QM77 PCH
- 1X DDR3/DDR3L SODIMM support to 8 GB
- Multiple expansion slots including one PCIe x4, 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; (selectable in by BIOS)
- One GPIO/RS-232 (8 channels, TTL level); (by swapping pin header)
- Dual GbE, supports Intel AMT8.0
- Supports iManager, SUSIAccess and Embedded Software APIs

Windows 7 iManager SUSIAccess RoHS COMPLIANT 2002/95/EC Windows® Embedded CE FC cULus

Introduction

The PPC-6170 is a Panel PC with an Intel Core i3/i5 or Celeron processor, and a 17" color TFT LCD panel. It features extremely high computing power, modular design, excellent connectivity, and can support virtually any application. 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-6170 highly reliable, and provide a great solution for a wide range of applications.
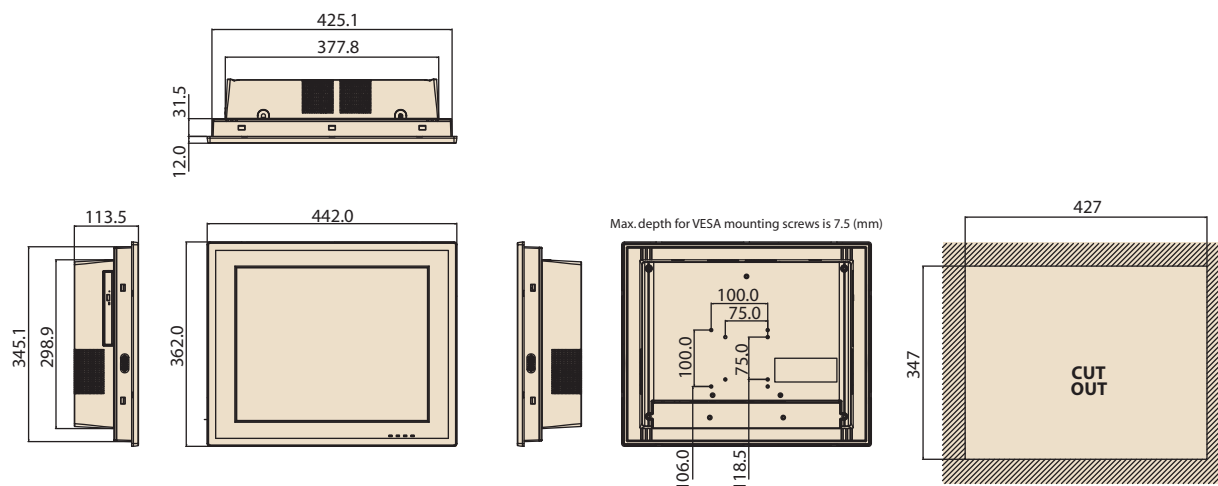
Specifications

	Intel	Core i5-3610ME	Core i3-3120ME	Celeron 847E	Celeron 1020E
Processor System	Frequency	2.7 GHz	2.4 GHz	1.1 GHz	2.2 GHz
	L3 Cache	4M	3M	2M	2M
	Chipset	Intel QM77			
	Memory	1 x 204-pin SODIMM, DDR3 (1600 MHz) / DDRL (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)			
	Network (LAN)	2 x Gigabit Gigabit Ethernet connectors, Intel AMT supported (GbE1- Intel 82579LM, GbE2 – Intel 82583V)			

	I/O ports	- 4 x COM ports, 1 x isolated RS-232/422/485,
		  3 x RS232
		- 1 x GPIO/RS-232 (8 channels, TTL level); by pin
		  header
		- 3 x USB3.0 + 2 x USB2.0 ports
				- 2 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) - one x PCIe x 4 (in the accessory box)		- 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	442.0 x 362.0 x 113.5 (mm) (17.4" x 14.25" x 4.47")			
	Weight	7.5Kg (16.52lb)			
OS Support	OS Support	Win XPE / Win XP Pro / WES7 32 & 64 bit / Windows 7 32 & 64 bit			
Power Supply	Output Rating	150 W (max.)			
	Input Voltage	100 - 240V$_{AC}$, 50/60Hz, 4-2A			
	Power Consumption	With Core i5-3610ME is 65W With Core i3-3120ME is 55W With Celeron 847E is 53W (Burn-in test 7.0 in Windows 7 32-bit)			
LCD Display	Display Type	17" TFT LCD (LED Backlight)			
	Max. Resolution	1280 x 1024			
	Colors	262K			
	Dot Size (mm)	0.264 x 0.264			
	Viewing Angle	85 (left), 85 (right), 80 (up), 80 (down)			
	Luminance(cd/m2)	350			
	Contrast Ratio	1,000			
	Operating Temperature	-30 ~ 85°C			
	Backlight Lifetime	50, 000 hrs (typical)			

ADVANTECH **Multi-functional Panel PCs**

Last updated : 15-May-2013

Dimensions

Unit: mm

425.1
377.8
31.5
12.0

113.5
345.1
298.9
442.0
362.0

Max. depth for VESA mounting screws is 7.5 (mm)

100.0
75.0
100.0
75.0
106.0
118.5

427
347

CUT OUT

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-6170-Ri5AE	Intel Core i5-3610ME (2.7G) Panel PC with 17" XGA LED backlight and 5-wire resistive T/S, w/o memory
PPC-6170-Ri3AE	Intel Core i3-3120ME (2.4G) Panel PC with 17" XGA LED backlight and 5-wire resistive T/S, w/o memory
PPC-6170-RC8AE	Intel Celeron 847E (1.1G) Panel PC with 17" XGA LED backlight and 5-wire resistive T/S, w/o memory
PPC-6150-WLANE	WiFi Module with Intel 6205 support 802.11 abgn, 2T2R
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-155T STAND	Stand kit for PPC-6150/PPC-6170
1702002605	Power cord 90D 220V EUROPEAN 250V/6A, 1.8M
1702002600	Power cord UL/CSA(USA) 180D 125V/10A 1.83M
2070011780	WES 7 32-bit (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access
2070011779	WES 7 64-bit (ENG/JPN/Simplified Chinese/Traditional Chinese), 4 languages with SUSI Access
PPC-6170-RC10AE	Intel Celeron 1020E (2.2G) Panel PC with 17" XGA LED backlight and 5-wire resistive T/S, w/o memory

I/O Placement

A B   C   D E F   G   H

L   M   L   K   J I

A: AC Inlet
B: Power Switch
C: USB 3.0 x 2, USB 2.0 x 2
D: HDMI
E: VGA
F: Cable clip x 2
G: Gigabit Ethernet x 2

H: 2 Expansion slots
I: Line out / Mic in
J: USB 3.0 x 1
K: GPIO / RS-232 (by swapping pin header)
L: RS232 x 3
M: Isolated RS-232/422/485 (selecting by BIOS)