

Regional Service & Customization Centers

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Worldwide Offices

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Italy	
Milan	39-02-9544-961
Arezzo	39-0575-98661

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Berkshire	44-1344-989500

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Irvine, CA	1-949-789-7178
Milpitas, CA	1-408-519-3898

Brazil	
Sao Paulo	55-11-5592-5355

Advantech Operating Interface Platforms

Speed up your quote-to-cash cycle



- / Multi-functional Panel PC
- / Fanless Panel PC
- / Panel PC Accessory



ADVANTECH

Advantech Operating Interface Platforms

Trusted ePlatform Services



www.advantech.com

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About Advantech

Trusted ePlatform Services

System integrators all over the world are constantly developing innovative applications to advance the quality of our daily life. Advantech's mission is to empower these innovations by offering trustworthy ePlatform products and services. Advantech has been an innovator in the development and manufacturing of high-quality, high-performance computing platforms since 1983. We offer comprehensive system integration hardware, software, customer-centric design services, global logistics support and an industry-leading front as well as back office e-business infrastructure. With Advantech, there are no limits to the applications our products can satisfy.



Market & Product Coverage

Business Units	Product Lines	Target Markets
Industrial & Network Computing	• Scalable mini ATX, MicroATX, full-sized ATX Motherboards • Industrial Chassis, Servers & Systems • PICMG Single Board Computers • Network Security Platforms • CompactPCI Platforms • AdvancedTCA Solutions	• Industrial Automation & Control • Medical • Test & Measurement • Network Security • Converged Communication • Telecommunications
Embedded Computing	• x86 / RISC System On Module • Signal Board Computers • Industrial Motherboards • Embedded Box Computers • Embedded Software Services	• Factory Automation • Medical / eHealthcare • Entertainment /Gaming • POI / POS / KIOSK / ATM • Transportation • Environmental Monitoring
Applied Computing & Video Solutions	• Public Service Computing • Industrial Vehicle Computing • Medical Computing • Display Solutions • eHome Appliances (UbiQ) • Digital Video Platforms • Video Surveillance • Digital Signage • iCAM24 / iSign24	• Point-of-Information / Kiosk • Equipment Manufacturing • Point-of-Sale / Retail / Hospitality • Medical / eHealthcare • Smart Home Networking • Warehousing / Logistics • Security & Surveillance • Digital Signage • Chain Store Management
eAutomation	• Open HMI Platform • Automation Controllers & Software • Industrial Communication • Distributed I/O Modules • Industrial I/O	• Factory Automation • Facility Management • Machine Automation • Environmental Monitoring • Intelligent Transport System • Automatic Test Equipment • Building Automation

Advantech Global Services

CTOS (Configure To Order Services)

Build Your Own System with A Few Simple Clicks

To realize "Trusted ePlatform Services" mission, Advantech Configure To Order Services (CTOS) is an eBusiness service consisting of web-based configuration tools, manufacturing services and Advantech global services for the ultimate system configuration solution.

CTOS can also be applied to Public Service Computing by modularizing products and providing easy ordering for customers. CTOS makes industrial computing solutions more accessible for improved product quality and customer satisfaction.



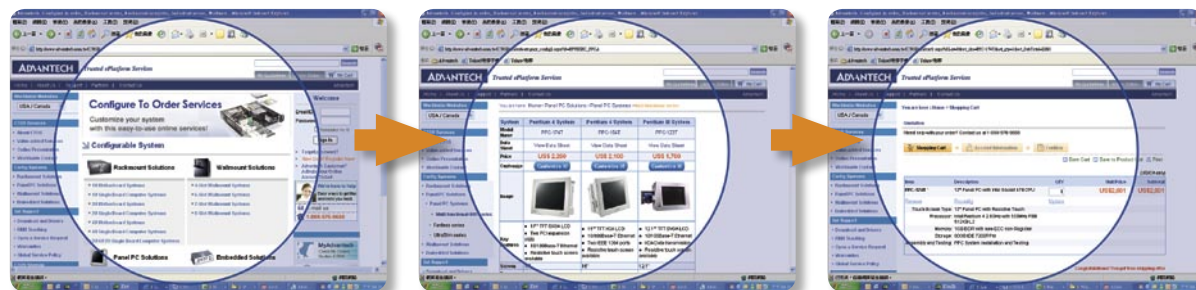
ADVANTECH CTOS

Configure To Order Services

Benefits for Public Service Computing Partners:

- Easy ordering: User friendly interface to help guide your selection.
- Interactive platform: Online quotation and product information search.
- Wide and flexible system solutions: Build your system to your specifications.
- Quickly delivered: Shorten lead time and get a better quality product with fewer set-up hassles.
- Warranty services for two years.

For more information, please go to <http://www.advantech.com/CTOS>



Step 1

Configure System

Step 2

Customization System

Step 3

Add to Cart

Manufacturing

Global Manufacturing & Flexible Capacity

Advantech complements its design strengths with three world-class production centers in China and Taiwan that are fully capable of meeting all your manufacturing needs.



ATMC

Taiwan Manufacturing Center

- Small-Volume Production
- Board & System Products
- ODM/OEM Projects
- Engineering Sample Innovation Service
- Specialize in Complicated Product Lines



AKMC

Kunshan, China Manufacturing Center

- Mid-to High-Volume Production
- Board & System Products
- ODM/OEM Projects
- Focus on Mature Product Lines



ADMC

DongGuan, China Manufacturing Center

- Chassis Design & Production
- System Products

Global Logistics Service

Worldwide Orders, Local Deliveries

Advantech's logistics and regional services network offer global leverage for your support infrastructure, and always help to give quick responses to your customers' changing business needs. We take manufacturing orders globally and ship products locally. Since there is no need to route goods through your own business site, products are promptly shipped to your customers from our service center.



Global Peripheral Procurement Service

Certificated Peripheral Management

The value of Advantech's Peripheral Procurement Services is to provide trusted, worry-free peripherals.

100% Compatible: All selected components are fully tested after integration with Advantech boards and systems.

Worldwide Standardization: All Advantech systems have been guaranteed to get the same quality peripherals.

Your Primary Peripheral Provider: Through partnership with strategic suppliers, we can offer competitive prices and supply a higher quality product to our customers.

Global eRMA

Global Access, Local Support

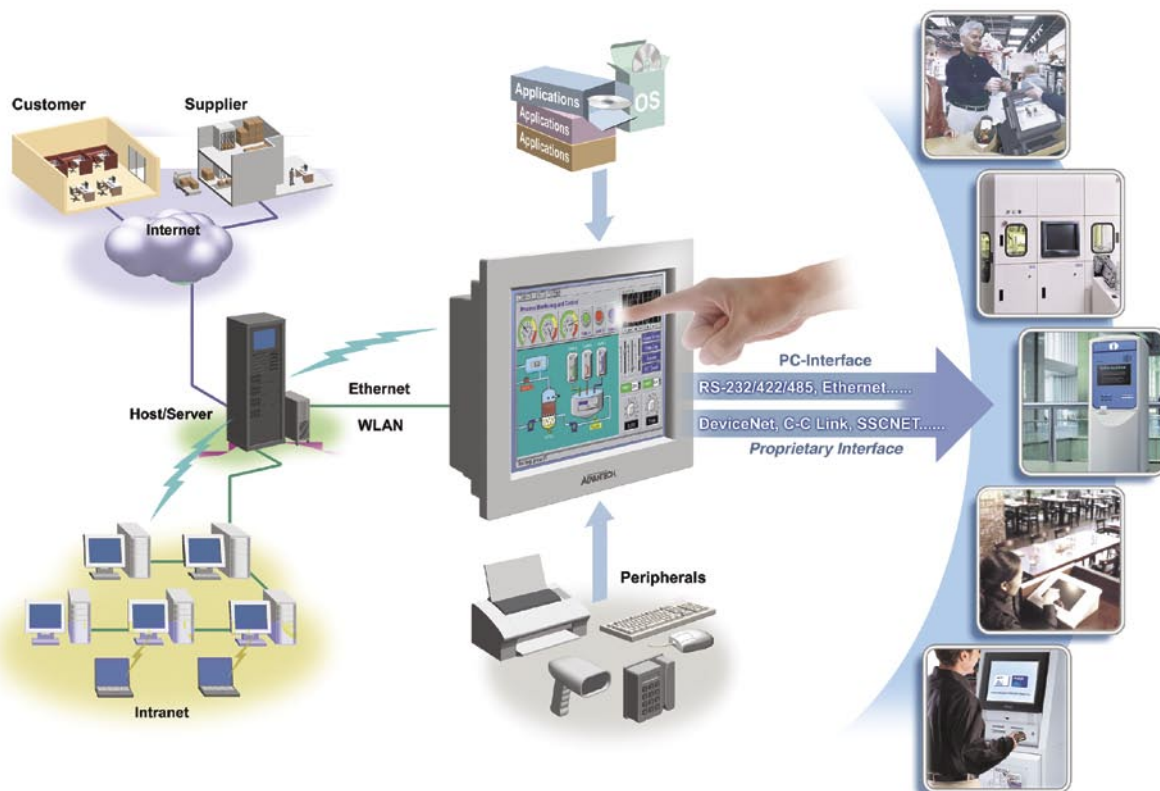
Online eRMA System

Advantech offers real-time Return Merchandise Authorization (RMA) status-tracking system. Through our Worldwide Customer Support Centers, you get regional technical support and repair services. The service represents our commitment to provide comprehensive technical support after delivery of new products.

Public Service Computing

Built for Easy Realization of Your Hardware Platforms

Advantech's Public Service Computing Division (PSCD) offers reliable computing platforms and integrated systems for diverse vertical applications. Our goal is to help customers achieve quick time-to-market turnarounds. PSCD is continually opening new opportunities for integrating computers into industrial equipment, point of information terminals (POI), point of sale terminals (POS), interactive kiosks and gaming applications.





Advantech's Panel PCs are guaranteed to provide the best industrial computing platforms. Our competence in this new frontier is based on growing experience, especially in the equipment and semiconductor manufacturing sectors. As the leading ePlatform provider, Advantech offers a full range of Panel PCs that feature slim profiles, fanless design, high-brightness LCDs and user-friendly touch screens. Panel PCs are the ideal solutions for machine automation, including process monitoring and control data terminals.

Advantech is an ISO-9001 and ISP-14000 certified organization, and applies strict quality control standards across the whole spectrum of design, production and shipment. Panel PCs are subjected to extensive testing, including EMI, EMC, temperature, vibration, and exposure to dust and liquids. Our products now meet the European Union's new RoHS directive to conserve materials and preserve the environment.



Multi-functional Panel PC

- Equipped with high performance CPU
- Supports Resistive/Capacitive/SAW and Infrared touchscreens
- Highly expandable
- UltraSlim chassis options



Fanless Panel PC

- Noise free design
- Ultra-low power consumption
- High reliability and stability



Installation Accessories

- Multiple standard mounting options
 - Desktop stand
 - Swing arm
 - Wall mount
 - Panel mount
- Customized installation options



System Integration Solutions

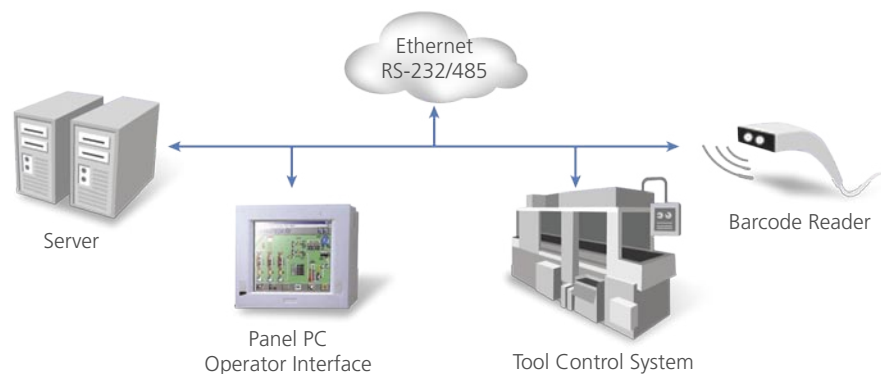
Semiconductor Manufacturing

The Internet plays an essential role in the business world, and seamless communication between clients and foundries is no longer a futuristic activity; it has become a basic and necessary function. For example, a typical semiconductor fab can apply the latest communications technology to focus tasks and record pertinent data. The manufacturer can streamline online order entry, track work in process (WIP), produce engineering reports, estimate project and delivery status, develop forecasting, plan strategies, and collect payments. In addition, operators in the semiconductor fab can communicate efficiently.



System Diagram

Advantech Panel PCs are being widely used right now: to manage process transaction systems for water processing; to set-up the instruction retrieval system for testing machines; and to establish a process parameter input interface for the clean room. A bar code reader records each transaction and automatically relays production process instructions to the manufacturing facility. Simultaneously, production quality and yield information is delivered to the panel computers, which means that the whole process can be monitored continuously. The system delivers timely, comprehensive evaluations, and the results of data analysis are stored efficiently on a readily accessible information server.



Industrial Equipment Manufacturing

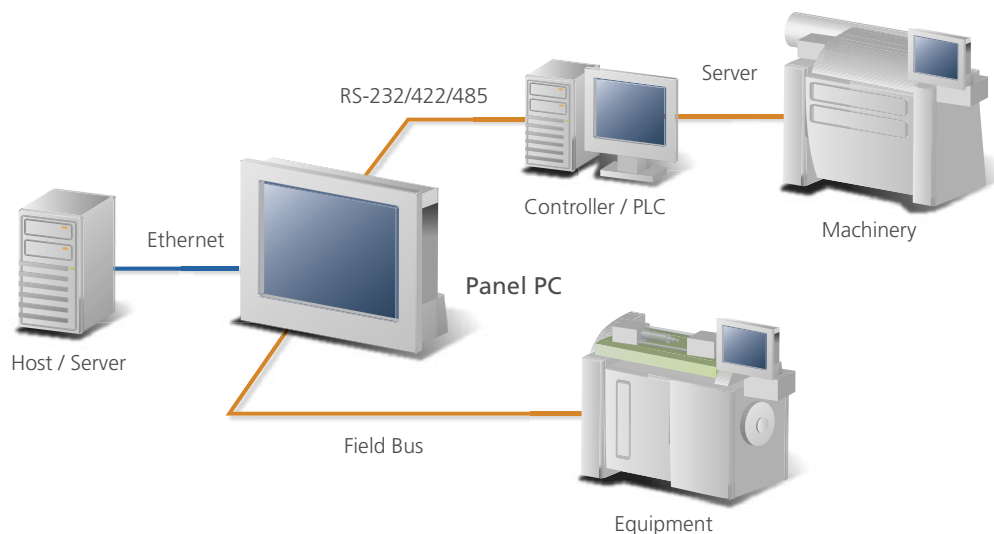
Panel PCs are most suitable for key Human Machine Interfaces, and they have replaced proprietary and obsolete PLC controllers. Simple Panel PC interfaces can be introduced for automated monitoring and process control to bring efficiency, productivity and safety to the factory. Furthermore, the new graphical interfaces that are key to Panel PC greatly help to heighten worker awareness, and so reduce human error and damage to work environments.

Panel PCs offer excellent data, networking and graphics processing power for demanding HMI applications. These computers must be rugged, support good connectivity and offer extended reliability. Finally, the all-in-one design concept of the Panel PC leads to a wonderful new world of convenient operation and simple maintenance.



System Diagram

A hierarchy of LANs has emerged from Ethernet to FDDI systems. Each type of LAN has its own specific use, and more than just control data is involved. A variety of operational and processing information is generated from both data and control processes. It is now evident that efficiency depends upon the interconnections between a variety of support systems that must be coordinated. The objective is to optimize manufacturing output and handle general logistical throughputs for the entire facility. Right now, client-server configurations that can make the most of LAN data communications are fulfilling these important functions.



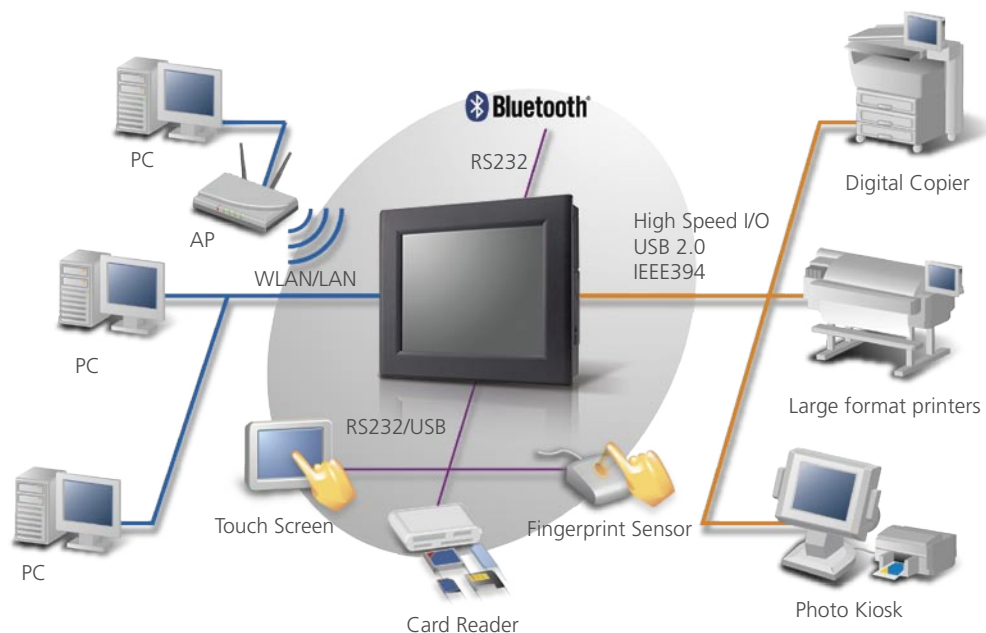
System Integration Solutions

Multi-functional Products

Panel PCs can be applied to any system that needs an operating interface for information input, display monitoring or preview, data storage and retrieval, and of course, network connectivity to a LAN or WAN via wired or wireless connection. Panel PC interfaces act as operating centers for systems. Multi-function 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.

System Diagram

In the digital age, people can plug small storage devices into multi-functional printers to print photos or posters directly. Card readers, USB 2.0 ports and IEEE1394 ports are essential interfaces for remote site data transmission. Integrated fingerprint readers enable confidential data printing. Some copiers incorporate Panel PCs with touchscreen interfaces, enabling easy control of printing services. Panel PCs offer equipment makers quick and easy options for integration.



Trolley Applications

Trolleys have always been used to transport items around plants and warehouses. Now, with amazing technological improvements, Panel PCs can be integrated on trolleys, transforming them into mobile computing platforms. The result is a paperless work flow along with great improvements to working efficiency. Panel PC trolley applications can be applied in various scenarios:

Supermarket: cash / coin scan & exchange system.

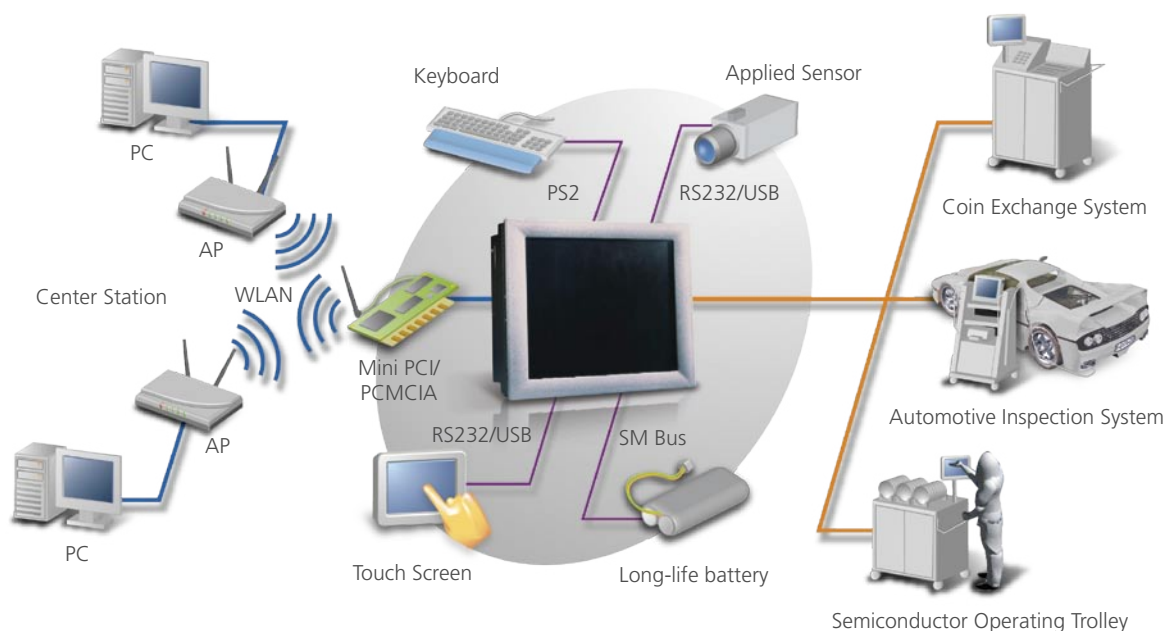
Factory: short-distance moving of equipment or instruments.

Repair Center: inspection system for space-saving.



System Diagram

Advantech Panel PCs support flexible mounting options for more customer choice. Light, slim and consuming less power, Panel PCs offer extended battery life and reduced weight, ensuring that computerized trolleys remain lightweight and mobile. The touchscreen offers the simplest control interface, and it's the easiest to maintain. Trolleys have limited space and need to be operated while moving. Easy maintenance and complete after sales service are the most important considerations when adopting panel PCs for trolley applications.



Key Benefits for Your Systems

The Benefits for Your Applications

Panel PCs offer customers unique features for specific application needs. Customers have many options to choose from, based on CPU, OS, LCD, touchscreen and sunlight readable features. All the best standard and customized solutions are available for their applications.



CPU - Varied CPUs support



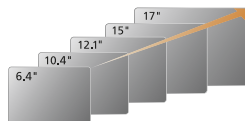
Advantech uses CPUs that offer long-term support on a secure roadmap. We pass the benefits of our global procurement capacity on to customers. The result is in a convenient one-stop shopping experience. Advantech computers support AMD Geode™ series, VIA® series, Intel® Pentium®III, Pentium®4, Pentium®M processors.

OS - Providing one-stop licensing



Advantech is a Microsoft Windows Embedded Authorized Distributor. This enables Advantech to provide one-stop shopping of licenses for Windows CE and XP Embedded operating systems.

Display - A full range of industrial-grade TFT LCDs



Advantech panel PCs support 6.4" to 17" TFT LCD panels. These industrial TFT LCDs offer high contrast, wide viewing angles, long lamp life (more than 50,000 hours), long MTBF and a minimum 3-year product life cycle. Advantech provides reliable information interfaces for versatile applications.

Sunlight Readable Solution

Outdoor display without Sunlight Readable Solution



Outdoor display with Sunlight Readable Solution

Advantech panel PCs are supplied with high quality sunlight readable LCDs that are easy to use in direct sunlight. With low reflection and high contrast ratios, sunlight readable panel computers are suitable for outdoor display solutions in kiosks, the food industry, ticket machines, interactive pay phones and gaming machines.

Benefits

- Readable in direct sunlight
- Low power consumption and low heat generation
- Low profiles for no parallax
- Highest clarity, durability and vandal resistance
- Sealed from contaminants to IP65 standards
- Continues to work even if scratched

Customization- Fast time-to-market services

Advantech Panel PCs are components that are designed for integration into main systems and devices. However, application requirements sometimes exceed the original product design. Customers often come to Advantech with different specifications and application needs. We frequently process requests for fast customization cycles so that our customers' products can reach the market quickly. Advantech's experienced customization service can complete a design sample for you to test within two months of project initiation.

■ Chassis Color, Material Design and Mounting Options

- Customized product ID, including front bezel design
- Customized chassis colors, labels and logos
- Flexible mounting services and feature placement options



■ Fast Embedded OS Customization

- Supports Windows 98, Windows 2000, Windows XP, Windows NT, Windows CE and Windows XP Embedded
- BIOS modification / Registry configuration
- Factory installation services



■ Power Source Customization

- AC and DC power supplies
- 12, 24 and 48 VDC power sources



■ Customization for Tough Environments

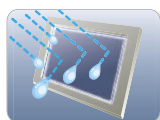
- Metal enclosure design
- Spill and dust resistance
- IP65 environmental rating



IP65 Compliant



Enclosure Design



Spill & Dust Resistant

■ Safety and EMC Certification Services

- Help with customer submission of EMS/EMI & safety certifications; and product & document support
- FCC, UL, CE, CCC, MIC, BSMI, VCCI certifications, etc.

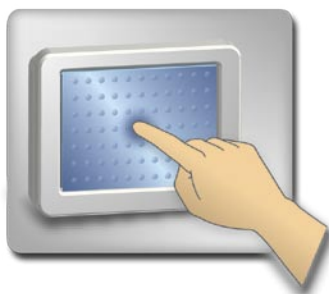


Key Benefits for Your Systems

Touchscreen Solutions

Different types of Touchscreens each have an unique response to the human touch. Choosing the right Touchscreen depends on its particular application, and the dynamics of its operations. Often, selecting a specific screen depends on the environment in which it is used everyday. Advantech Panel PCs support four different types of Touchscreen: Resistive, Capacitive, Surface Acoustic Wave (SAW) and Infrared. Each has its advantages for specialized applications.

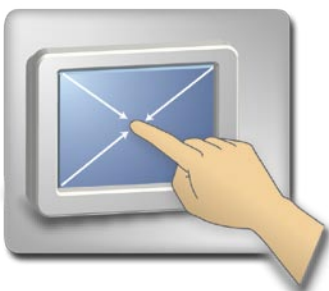
► Resistive touchscreen



Resistive touchscreens have two thin conductive layers separated by spacers. An electrical circuit is made when the two layers are pressed together in a touch event. The touch controller establishes a voltage gradient in the X and Y dimensions. It then uses these voltage gradients to determine the precise coordinates of X and Y on the screen. Accordingly, the appropriate response/action is delivered.

Advantages	Disadvantages
• Cost effective solution • Activated by any stylus • High touch point resolution • Low power consumption	• Reduced optical clarity • Surface can be damaged

► Capacitive touchscreen

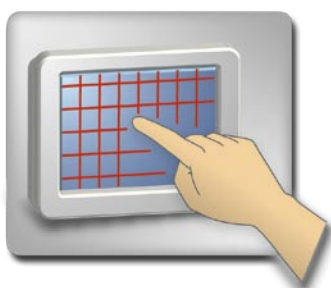


Capacitive touchscreens have a single conductive layer. A current flows through the object touching this layer during a touch event. The touch controller establishes an AC field through the four corners of the conductive layer and then determines the X and Y coordinates of the touch event from the changes detected at the four corners.

Advantages	Disadvantages
• Very accurate • Fast response time • Good optical clarity • Extremely durable	• Requires bare finger or capacitive stylus • Severe scratch can affect operation around the damaged area



■ Infrared touchscreen



An infrared Touchscreen panel employs either direct detection of thermal changes on the surface, or an array of vertical and horizontal IR sensors that detect and measure interruptions of a modulated light beam over the screen surface. Infrared Touchscreens are protected by a choice of glass or acrylic overlays for optical, security, or safety. The Infrared touch screen technology provides stable, drift-free operating in various ruggedized applications. A finger, gloved hand, fingernail or stylus will always deliver a fast, accurate response every time.

Advantages	Disadvantages
• Adjusts to changing light conditions, including direct sunlight • Stable, no-drift calibration performance • Withstands severe environments	• Low reliability (MTBF for diodes) • Low touch resolution

■ Surface acoustic wave (SAW) touchscreen



Surface Acoustic Wave touchscreens transmit bursts of ultrasound over the surface of the screen. Some of this sound is absorbed during a touch event. The touch controller calculates the coordinates of the touch event from the change in amplitude of the sound and its timing.

Advantages	Disadvantages
• Good optical clarity • Stable, drift-free operation	• Requires finger or sound absorbing stylus • Signal affected by surface liquids or other containments

Advantech PPC-L156T Fanless Panel PC Proves Perfect for Tire Production

Customer : A tire manufacturer

Introduction

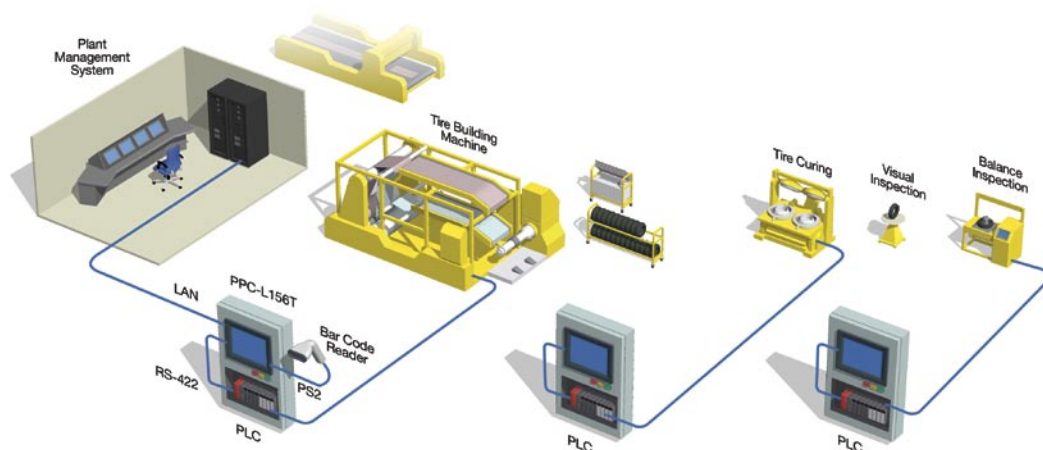
Bridgestone Corporation is a well-know worldwide tire supplier. Bridgestone Taiwan, with technological support from Bridgestone Japan, makes products of high reliability and quality. The tire production process needs numerous charged carbon particles. To meet strict environmental protection codes & regulations and increase production efficiency, Bridgestone Taiwan has applied the Advantech high-performance PPC-L156T with fanless Intel® Pentium® M 1.1 GHz processor and chassis that eliminates the problem of carbon dust being drawn into the chassis by cooling fans.



Solution

The fanless PPC-L156T delivers excellent performance through Intel® Celeron® M 800 MHz or Pentium® M 1.1 GHz processors. The PPC-156T is designed to make changing the hard drive a quick and easy process. This is why Bridgestone Taiwan selected the Advantech PPC-L156T for the tire production line data transmission interface. The PPC-156T helps make tire production more efficient and cost effective.

System Scenario



Benefits

- Industrial computing performance: High system stability and good connectivity for easy integration with back end databases
- Fanless design: Eliminates the problem of damaging carbon dust drawn into the chassis by cooling fans
- Easy maintenance: The PPC-L156T has a hard drive hood that makes it easy to replace hard drives
- Flexible assembly options: The PPC-L156T has flexible and diverse assembly options to enable integration with production machinery

Advantech PPC-L126T Panel PC Increases Production Efficiency in the Packing Industry

Customer : Packing equipment manufacturer

Introduction

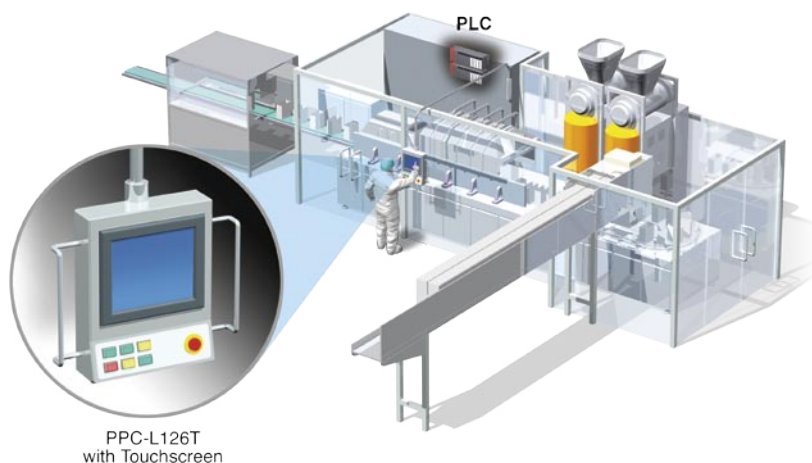
A manufacturer of packing equipment for the food, pharmaceutical and chemical industries needed a rugged panel computer with good connectivity that was capable of reliable 24-7 operation in tough production environments. The panel PC needed RS-485 and LAN connectivity to control packing accuracy and send production data to back-end servers.



Solution

Packing machines require compact computing devices with good tolerance for their environment, reliability under 24-7 operation and RS-232/485 connectivity to PLCs. The Advantech PPC-L126T Panel PC occupies less space than the old solution and has a longer operational life. The wide viewing angle of the 12" LCD screen means the user has a clear view from many positions. The sealed, fanless design eliminates fan noise and prevents dust from penetrating into the chassis for greater reliability. Advantech Panel PCs enable the client to achieve better workflow and reduced packing errors for higher production efficiency. These advantages allow the client to dedicate more resources to enterprise development.

System Scenario



PPC-L126T
with Touchscreen

Benefits

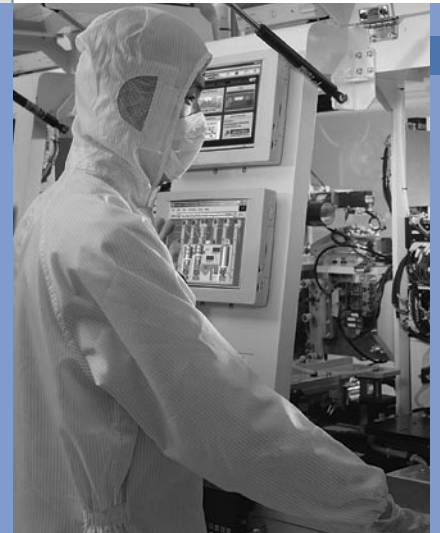
- The PPC-L126T is built to industrial standards for longer operational life
- The wide-angle 12" LCD screen enables the user to get a clear view from many positions
- The sealed, fanless design eliminates fan noise and prevents dust from penetrating the chassis for greater reliability

Advantech PPC-S154T Panel PC Improves Accuracy in Semiconductor Fabrication

Customer : A semiconductor IC packaging & test vendor

Introduction

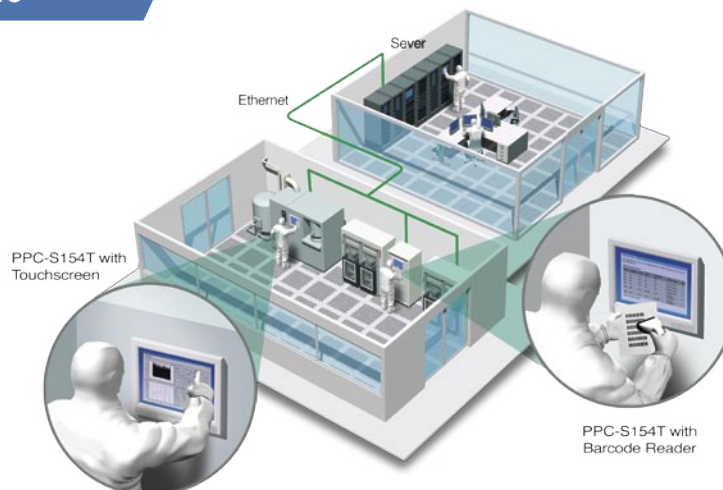
Strategically located in the heart of the Asian fab industry, Taiwan IC makers are dedicated to the development of foundry services and DRAM technology. In a fully automatic production line in 300 mm wafer fab, operators need a well-developed information terminal that can be connected to the main system for easy monitoring and control of every production stage.



Solution

The foundry service provider discovered Advantech's Panel PC was the solution. The slim profile, comprehensive functionality, high brightness LCD and user-friendly touchscreen of the Advantech PPC-S154T Panel PC makes it an ideal human-machine interface. In this case, the PPC-S154T was integrated into the CIM (Computer Integrated Manufacturing) System. The host server is in charge of data processing and storage, while the PPC-S154T serves as an operating panel. The PPC-S154T was connected to a bar code reader and via an Ethernet connection to the host server. Operators can easily retrieve data with the touch panel of the PPC-S154T and collect data by scanning the bar code on the wafer.

System Scenario



Benefits

- Industrial standard design for reliable performance and quality
- Touchscreen for easy, intuitive control
- All-in-one design that occupies less space
- Flexible mounting options for all kinds of environments (panel mount, wall mount, swing arm and desktop stand kit, etc.)
- Powerful connectivity: onboard 10/100Base-T Ethernet, 4 COM Ports, RS-232 x 3, RS-485, USB x 2 and PCMCIA

Selection Guide

Coming Soon



NEW



NEW



Specifications		Multi-functional Panel PC				
CPU Board		PPC-175 (Coming soon)	PPC-174T	PPC-155T(New)	PPC-S155T(New)	PPC-154T
Processor		PCM-9687	PCM-9680	PCM-9687	PCM-9691	PCM-9683
Memory		Socket 478 Pentium M / Celeron M CPU up to 1.8GHz / 1.5GHz	Socket 478 Intel Pentium 4 CPU up to 3.06 GHz	Socket 478 Pentium M / Celeron M CPU up to 1.8GHz / 1.5GHz	Socket 478 support Celeron M / Pentium-M up to 2.0 GHz	Socket 478 Intel Pentium 4 CPU up to 3.06 GHz
Memory	Size	128 MB ~ 1 GB DDR DRAM	128 MB ~ 2 GB DDR SDRAM	128 MB ~ 1 GB DDR DRAM	128 MB ~ 2 GB DDR SDRAM (Standard is built-in 256 MB)	128 MB ~ 2 GB DDR SDRAM
	Module Type	184-pin DIMM x 2	184-pin DIMM x 2	184-pin DIMM x 2	200-pin SODIMM x 2	184-pin DIMM x 2
2nd Cache Memory		On-die 512 KB	On-die 512 KB	On-die 512 KB	On-die 1-2MB	On-die 512 KB
SSD/Type		-	Optional 6-in-1 Card reader (MS, SD, SM, MC, ad CF type I/II sockets)	-	Support 1 x internal CompactFlash Type II socket	Optional 6-in-1 Card reader (MS, SD, SM, MC, ad CF type I/II sockets)
Display	Size/Type	17" TFT LCD	17" TFT LCD	15" TFT LCD	15" TFT-LCD	15" TFT LCD
	Max. Resolution	1280 x 1024	1280 x 1024	1024 x 768	1024 x 768	1024 x 768
	Brightness (cd/m2)	300	300	350	350	350
	Backlight MTBF	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs
VGA	Chipset	855GM	Intel 845GV	855GM	Intel 915GM	Intel 845GV
HDD/Type		1 x 2.5" drive	1 x 3.5" drive	1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive
FDD/Type		Optional	1 x built-in 3.5" drive	Optional	1 x built-in 3.5" drive	1 x built-in 3.5" drive
PCMCIA Slot		Support Type II x1	Support Type II x 2 or Type III x 1	Support Type II x1	-	Support Type II x 2 or Type III x 1
Optical Devices		Optional 24X or above	1 x built-in drive, 24X or above for CD-ROM; 8D/24W/24E/24R or above for Combo	Optional 24X or above	Optional 24X or above for CD-ROM; 8D/24W/24E/24R or above for Combo	1 x built-in drive, 24X or above for CD-ROM; 8D/24W/24E/24R or above for Combo
I/O Interface		3 x COM ports, 4 x USB ports (V 2.0), PS/2 mouse & KB, Mic-in/Line-in/Line-out, VGA port, 2 IEEE 1394 ports	3 x COM ports, 1 x Parallel port, 4 x USB ports (V 2.0), PS/2 mouse & K/B, Mic-in/Line-in/Line-out, VGA port, S-Video port	3 x COM ports, 4 x USB ports (V 2.0), PS/2 mouse & KB, Mic-in/Line-in/Line-out, VGA port, 2 IEEE 1394 ports	2 x COM ports, 4 x USB ports (V 2.0), PS/2 mouse & K/B, Mic-in/Line-in/Line-out, VGA port, S-Video port for option	2 x COM ports, 1 x Parallel port, 4 x USB ports (V 2.0), PS/2 mouse & K/B, Mic-in/Line-in/Line-out, VGA port, S-Video port, 2 x IEEE 1394 ports
Power	Output Rating	130 W	180 W	130 W	72 W	180 W
	Input Voltage	100 ~ 240 VAC @ 50 ~ 60 Hz	100 ~ 240 VAC @ 50 ~ 60 Hz	100 ~ 240 VAC @ 50 ~ 60 Hz	19 VDC	100 ~ 240 VAC @ 50 ~ 60 Hz
Touch screen	Type & Light Transmission	80% (Resistive)/ 91% (Capacitive)/ 91% (SAW)/ 91% (IR)	75% (Resistive)/ 91% (Capacitive)/ 91% (SAW)/ 91% (IR)	80% (Resistive)/ 91% (Capacitive)/ 91% (SAW)	Resistive	80% (Resistive)/ 91% (Capacitive)/ 91% (SAW)/ 91% (IR)
	Control Port	RS-232	RS-232 (COM 4)	RS-232	RS-232 (COM 4)	USB
Working Temperature		0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)
Front Panel Protection		NEMA 4 / IP65 compliant	NEMA 4/IP65 compliant (systems with SAW T/S excluded)	NEMA 4 / IP65 compliant	NEMA4/IP 65 compliant	NEMA 4/IP65 compliant (systems with SAW T/S excluded)
Certificate		BSMI, VCCI, UL, CE, FCC Class B, CSA	BSMI, VCCI, UL, CE, FCC Class B, CSA	BSMI, VCCI, UL, CE, FCC Class B, CSA	BSMI, VCCI, UL, CE, FCC Class B, CB, CSA	BSMI, VCCI, UL, CE, FCC Class B, CSA
Dimensions (W x H x D)		442 x 362 x 111.5 mm (17.4" x 15.04" x 4.39")	446 x 382 x 127mm (17.56" x 15.04" x 5")	396.5 x 317.6 x 102.5mm (15.6" x 12.5" x 4")	375 x 299 x 49mm (14.76" x 11.77" x 1.93")	420 x 223.3 x 130.5 mm (16.54" x 12.72" x 5.12")
Weight		TBD	10.5 kg (23 lbs)	6.5 kg (14.3 lbs)	4.9 kg (10.78 lbs)	7 kg (15.4 lbs)

Installation Accessory Information

- PPC-175 STAND
- PPC-174SWINARM
- PPC-174 WL-MT

- PPC-174 Stand
- PPC-174 SWINARM
- PPC-174 WL-MT
- PPC-174 RACK-MT

- PPC-155 STAND
- PPC-174SWINARM
- PPC-174 WL-MT

- PPC-S1553 STAND
- PPC-S15X STAND-BLK
- PPC-S154 WL-MT

- PPC-120 STAND
- PPC-154 SWINARM
- PPC-ARM-A01

Selection Guide



Specifications		Multi-functional Panel PC				
CPU Board		PPC-S154T PCM-9681	PPC-153T PCM-9672	PPC-123T PCM-9672	PPC-S123T PCM-9573	PPC-103T PCM-9573
Processor		Socket 478 Mobile Intel Pentium 4 Processor-M CPU up to Processor-2.2 GHz (built-in 1.7 GHz)	Socket 370 Pentium III & Celeron CPU to 850 MHz	Socket 370 Pentium III & Celeron CPU to 850 MHz	Socket 370 Pentium III & Celeron CPU to 850 MHz	Socket 370 Pentium III & Celeron CPU to 850 MHz
Memory	Size	64 MB ~ 1 GB DDR SDRAM (standard is built-in 256 MB)	32 MB ~ 1 GB SDRAM	32 MB ~ 1 GB SDRAM	32 MB ~ 512 MB SDRAM	32 MB ~ 512 MB SDRAM
	Module Type	200-pin SODIMM x 2	168-pin DIMM x 2	168-pin DIMM x 2	144-pin SODIMM x 2	144-pin SODIMM x 2
2nd Cache Memory		On-die 512 KB	On-die 256 KB or 512 KB	On-die 256 KB or 512 KB	On-die 256 KB	On-die 256 KB
SSD/Type		Support 1 internal CompactFlash Type II socket	-	-	Supports 1 internal CompactFlash Type I socket	Supports 1 internal CompactFlash Type I socket
Display	Size/Type	15" TFT-LCD	15" TFT LCD	12.1" TFT LCD	12.1" TFT LCD	10.4" TFT LCD
	Max. Resolution	1024 x 768	1024 x 768	800 x 600	800 x 600	800 x 600
	Brightness (cd/m2)	350	350	400	400	230
	Backlight MTBF	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs	20,000 hrs
VGA	Chipset	Intel 845GV	VIA 8606 (Twister)	VIA 8606 (Twister)	SMI721	SMI710/SMI721
HDD/Type		1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive
FDD/Type		1 x built-in 3.5" drive	1 x built-in 3.5" drive	1 x built-in 3.5" drive	1 x external FDD connector	Supports 1 x external FDD connector
PCMCIA Slot		-	Support Type II x 2 or Type III x 1	Support Type II x 2 or Type III x 1	-	-
Optical Devices		1 x built-in drive, 24X or above for CD-ROM; 8D/24W/24E/24R or above for Combo	1 x built-in drive, 24X or above for CD-ROM; 8D/24W/24E/24R or above for Combo	1 x built-in drive, 24X or above for CD-ROM; 8D/24W/24E/24R or above for Combo	1 x external IDE connector	1 x external IDE connector
I/O Interface		2 x COM ports, 4 x USB v2.0 ports, PS/2 mouse & K/B, Mic-in/Line-in/Line-out, VGA port, S-Video port for option	4 x COM ports, 1 x parallel port, 2 x USB, PS/2 mouse & K/B, Mic-in/ Line-in/Line-out, VGA port, game port	4 x COM ports, 1 x parallel port, 2 x USB, PS/2 mouse & K/B, Mic-in/Line-in/Line-out, VGA port, game port	4 x COM ports, 1 x parallel port, 2 x USB, PS/2 mouse & K/B, Line-in/Line-out	4 x COM ports, 1 x parallel port, 2 x USB, PS/2 mouse & K/B, VGA port, Mic-in/Line-out
Power	Output Rating	70 W	80 W/74 W	80 W/74 W	60 W	65 W/75 W; 60 W
	Input Voltage	24 VDC	(100 ~ 250 VAC @ 50 ~ 60 Hz); 12/24/48 VDC	(100~250 VAC @ 50~60 Hz); 12/24/48 VDC	24 VDC	(100~250 VAC @ 50~60 Hz); 12/24 VDC
Touch screen	Type & Light Transmission	Resistive	80% (Resistive)/ 91% (Capacitive)/ 91% (SAW)/ 91% (IR)	80% (Resistive)/85% (Capacitive)/ 91% (SAW)/91% (IR)	Resistive	75% (Resistive)/91% (IR)
	Control Port	RS-232 (COM 4)	RS-232 (COM 4)	RS-232 (COM 4)	RS-232 (COM 4)	RS-232 (COM 4)
Working Temperature		0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)
Front Panel Protection		NEMA4/IP65 compliant	NEMA 4/IP65 compliant (systems with SAW T/S excluded)	NEMA 4/IP65 compliant	NEMA 4/IP65 compliant	NEMA 4/IP65 compliant
Certificate		UL, CE, FCC Class B, CB, CSA	BSMI, VCCI, UL, CE, FCC Class B, CSA, CCC	BSMI, VCCI, UL, CE, FCC Class B, CSA, CCC	UL, CE, FCC Class B, CSA	VCCI, UL, CE, FCC Class B, CSA, CCC
Dimensions (W x H x D)		375 x 299 x 49 mm (14.76" x 11.77" x 1.93")	420 x 323 x 106 mm (16.54" x 12.72" x 4.17")	375 x 285.5 x 104.4 mm (14.76" x 11.24" x 4.11")	311 x 237 x 54.5 mm (12.24" x 9.33" x 2.15")	342 x 265 x 92.4 mm (13.5" x 10.4" x 3.64")
Weight		4.9 kg (10.78 lbs)	6.5 kg (14.3 lbs)	5.2 kg (11.5 lbs)	2.6 kg (5.8 lbs)	3.5 kg (7.7 lbs)
Installation Accessory Information		• PPC-120 STAND • PPC-154 SWINARM • PPC-ARM-A01	• PPC-120 STAND • PPC-150 SWINARM • PPC-153 RACK-MT • PPC-120 WL-MT • PPC-ARM-A02	• PPC-120 STAND • PPC-120 SWINARM • PPC-120 WL-MT • PPC-ARM-A02	• PPC-S123 WL-MT • PPC-S123RACK-MT • PPC-ARM-A01	• PPC-100 STAND • PPC-100 SWINARM • PPC-100WALL-MT



NEW



Coming Soon

Fanless Panel PC

PPC-L156T	PPC-L127T(New)	PPC-L126T	PPC-L106T	PPC-L60T	PPC-L61T (Coming soon)
PCM-9685	PCM-9693	PCM-9671	PCM-9679	PCM-9373	PCM-9375
Intel Celeron M 1.0 GHz Intel Pentium M 1.1 GHz	Intel Celeron M 1.0 GHz	VIA Eden 667 MHz on board	AMD Geode LX 800 (500 MHz)	VIA Eden 400 MHz on board	AMD Geode LX 800 (500 MHz)
128 MB ~ 2 GB DDR (Standard build-in 256 MB)	128 MB ~ 1 GB DDR SDRAM	32 MB ~ 1 GB SDRAM	128 MB ~ 1 GB DDR SDRAM (Standard build-in 256 MB)	64 MB ~ 512 MB SDRAM (Standard build-in 128 MB)	128 MB ~ 512 MB DDR SDRAM (Standard build-in 256 MB)
200-pin SODIMM x 2	184-pin DIMM x 1	168-pin DIMM x 2	200-pin SODIMM x 1	144-pin SODIMM x 1	200-pin SODIMM x 1
N/A / 1 G	N/A	On-die 64 KB	128 KB	On-die 64 KB	128 KB
Supports 1 internal Compact Flash Type I/II socket	Support 1 internal Compact Flash Type I/II socket	Support 1 internal CompachFlash Type I/II socket	Support 1 internal Compact Flash Type I/II socket	Support 1 internal CompactFlash Type I/II socket	Support 1 internal CompactFlash Type I/II socket
15" TFT LCD	12.1" TFT LCD	12.1" TFT LCD	10.4" TFT LCD	6.4" TFT LCD	6.5" TFT LCD
1024 X 768	800 x 600	800 x 600	800 x 600	640 x 480	640 x 480
350	400	400	230	150	500
50,000 hrs	50,000 hrs	50,000 hrs	20,000 hrs	20,000 hrs	50,000 hrs
Intel 852GM/Intel 855GME	Intel 852GM	VIA 8606 (Twister)	AMD CS 5536	VIA 8606 (Twister)	AMD CS 5536
1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive	1 x 2.5" drive
-	-	-	-	-	-
Support type II x2 or type III x1	-	-	-	-	-
Optional	Optional	1 x built-in drive, 24X or above for CD-ROM; 8D/24W/24E/ 24R or above for Combo	-	-	-
3 x COM ports, 1 x Parallel port, 2 x USB ports, 1 x VGA port, 1 x PS/2 mouse and keyboard port	4 x COM ports, 1 x Parallel port, 6 x USB (4x external, 2 x internal) K/B, VGA port, Mic-in/Line-in/Line-out	4 x COM ports, 1 x Parallel port, 2 x USB, VGA port, Mic-in/Line-in/Line-out, PS/2 mouse & K/B, VGA port	4 x COM ports, 1 x Parallel port, 4 x USB (2 x external, 2 internal), Mic-in/Line-out, PS/2 mouse & K/B, VGA port	2 x COM ports, 1 x USB, PS/2 mouse & K/B, VGA port	2 x COM ports, 1 x USB, PS/2 mouse & K/B, VGA port
60 W	60 W	60 W	65 W	60 W	60 W
18 ~ 25 VDC	18 ~ 25 VDC	24 VDC	100 ~ 250 VAC/50 ~ 60 Hz;	12 ~ 24 VDC	12 ~ 24 VDC
80% (Resistive) 91% (Capacitive) 91% (IR)	Resistive	Resistive	Resistive	Resistive	Resistive
RS232	USB	RS-232 (COM 4)	RS-232 (COM 4)	USB	USB
0 ~ 45° C (32 ~ 113° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 40° C (32 ~ 104° F)	0 ~ 45° C (32 ~ 113° F)	0-40° C (32 ~ 104° F)	
NEMA/ IP65 Compliant	NEMA 4/IP65 compliant	NEMA 4/IP65 compliant	NEMA 4/IP65 compliant	NEMA 4/IP65 compliant	NEMA 4/IP65 compliant
CE, FCC Class B, UL, BSMI, CCC	UL, CE, FCC Class B, BSMI, CCC	BSMI, VCCI, UL, CE, FCC Class B, CSA, CCC	UL, CE, FCC Class B, BSMI, CCC	CE, FCC Class A, UL	CE, FCC Class A, UL
415 x 333 x 76.5 mm (16.3" x 13.1" x 3)	340.5 x 269.3 x 70.5 mm (13.41" x 10.6" x 2.78")	340.5 x 269.3 x 70.5 mm (13.41" x 10.6" x 2.78")	342 x 265 x 92.4 mm (13.5" x 10.4" x 3.64")	218 x 151 x 74.2 mm (8.58" x 5.94" x 2.92")	TBD
6 kg (13.2 lbs)	3.25 kg (7.15 lbs)	3.25 kg (7.15 lbs)	3.2 kg (7.1 lbs)	1.8 kg (3.96 lbs)	TBD

- PPC-S1553 STAND -BLK
- PPC-ARM-A01
- PPC-L126 BP
- PPC-174 WL-MT
- PPC-EXP-L156

- PPC-L126 Stand
- PPC-ARM-A01
- PPC-L126 BP
- PPC-L126 WL-MT
- PPC-EXP-127E
- PPC-L126Rack-MT

- PPC-L126 Stand
- PPC-ARM-A01
- PPC-L126 BP
- PPC-L126 WL-MT
- PPC-EXP-L126
- PPC-L126Rack-MT

- PPC-100 Stand
- PPC-100 SWINGARM
- PPC-100 WALL-MT
- PPC-EX-L106
- PPC-105 Rack-MT

- PPC-L60T WL-MT
- PS-DC19-L60

- PPC-L60T WL-MT
- PS-DC19-L60

PPC-175T

Panel PC with 17" Color TFT LCD and Intel® Pentium®/Celeron® M Processor

Coming Soon



Features

- 17" TFT XGA LCD
- Intel® Pentium®/Celeron® M up to 1.8 GB/1.5 GB
- System memory up to 2 GB DDR RAM
- Built-in CF card interface (IDE interface for OS booting)
- One PCI expansion slot
- Two 10/100Base-T Ethernet ports (second LAN port or Gigabit LAN are optional)
- Two IEEE 1394 ports
- Resistive, capacitive, SAW touch screen are available
- LED Indicator for Power, LAN and Hard Disk

Introduction

The PPC-175T is an Intel Pentium/Celeron M based Panel PC with 17" color TFT LCD (resolution up to 1024 x 768). 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.

Specifications

- **CPU** Supports Socket 478 based Pentium /Celeron M up to 1.8G /1.5G
- **Disk Drive Housing** Room for 1 x 2.5" HDD
- **Dimensions (W x H x D)** 442 x 362 x 111.5 mm (17.4" x 14.25" x 4.39")
- **Front Panel Protection** IP65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (2.5" HDD bay)
- **CD-ROM Drive** Optional 24X or above
- **DVD-ROM Drive** Optional 16X or above
- **Combo Drive** Optional DVD/CD-RW 8D/24W/24E/24R or above
- **Memory** Supports up to 2 GB DDR SDRAM (184-pin)
- **FDD** Optional
- **Network (LAN)** 2 x ports 10/100Base-T Ethernet interface (second LAN port or Gigabit LAN are optional)
- **I/O Ports**
 - 3 x COM ports: 2 x RS-232, 1 x RS-232/422/485
 - 4 x USB 2.0 ports
 - 1 x PCMCIA Type II
 - 1 x PS/2 mouse and keyboard interface
 - Mic-in, Line-in, Line-out
 - 2 x IEEE 1394 ports
- **Bus Expansion** 1 x PCI expansion slot, 1 x Mini PCI card

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 5% ~ 85% non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B, CCC
- **Safety** CB, CE, UL

Power Supply

- **Output Rating** 130 W (max.)
- **Input Voltage** 100 ~ 250 Vdc @ 50 ~ 60 Hz
- **Output Voltage** +3.3 V @ 8.0 A, +5 V @ 12.0 A, +12 V @ 4.0 A, -12 V @ 0.2 A, +5 Vsb @ 2.0 A

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 17"
- **Max. Resolution** 1024 x 768
- **Max. Colors or Grayscales** 16.7M
- **Pixel Pitch (mm)** 0.264 x 0.264
- **Luminance (cd/m²)** 300
- **Contrast Ratio** 800 : 1
- **Viewing Angle** 80° (left), 80° (right), 80° (up), 80° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs

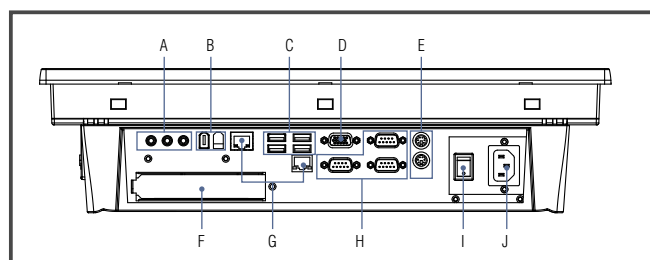
Touchscreen (Optional)

Types	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	80%	91.5%	91%	91%
Controller	RS-232 Interface	RS-232 Interface	RS-232 Interface	
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 150 mA	+5 V @ 150 mA
Software Driver	Supports both DOS and Windows			
Durability (Touches lifetime)	35 million	225 million	50 million	100,000 hrs

Ordering Information

Part No.	Description
PPC-175T-BAREE	Panel PC with 15" color TFT LCD display (resolution 1024 x 768)
PPC-175T-BARE-TE	PPC-175T Bare BOM with resistive touchscreen
PPC-175T-BARE-CE	PPC-175T Bare BOM with capacitive touchscreen
PPC-175T-BARE-SE	PPC-175T Bare BOM with SAW touchscreen
PPC-175T STAND	Stand kit for PPC-154/155/174/175T Series
PPC-174 WL-MT	Wall mount kit for PPC-154/155/175T Series
PPC-174 SWINARM	Swingarm kit for PPC-154/155/174/175T Series

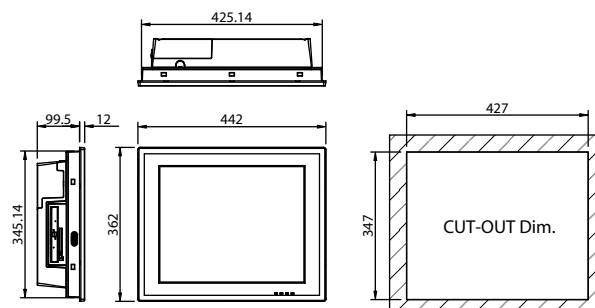
Fully Integrated I/O



- A. Line-in / Line-out / Mic-in
- B. IEEE 1394 x 2
- C. USB2.0 x 4
- D. VGA port
- E. PS/2 mouse & keyboard
- F. PCI slot x 1
- G. 10/100 Base-T Ethernet x 2 (Gigabit optional)
- H. RS-232 x 2, RS-232/422/485 x 1
- I. Power switch
- J. AC Inlet

Dimensions

Unit: mm



Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-175T complies with the IP65/NEMA 4 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.

Networking

Three serial ports and two 10/100Base-T Ethernet ports (Second LAN port or Gigabit LAN are optional) gives the PPC-175T advanced networking capabilities, and provide a great solution for versatile applications.

Expansion

To extend functionality, the PPC-175T is designed with one expansion slot for PCI cards, four USB 2.0 (Universal Serial Bus) ports, and one PCMCIA card bus (Type II x 1). With these expansion capabilities, the PPC-175T not only functions as an HMI, but also as a computing center on which to build your applications.

Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-175T modular design. In order to replace a defective LCD or touchscreen, one merely needs to remove the front cover and LCD bracket instead of disassembling the whole system.

Touchscreen Options

Customers can choose from four optional types of standardized touchscreens: resistive, capacitive, Infrared, and SAW (Surface Acoustic Wave). Flexible options for the PPC-175T offer a more user-friendly interface for diverse environments.

PPC-174T

Panel PC with Intel® Pentium® 4 Processor and 17" Color TFT LCD



Features

- 17" TFT SXGA LCD
- Intel® Pentium® 4 CPU up to 3.06 GHz
- System memory up to 2 GB DDR SDRAM
- Built-in FDD/CD-ROM drive/speakers
- Built-in PCMCIA Type II x 2
- Two PCI expansion slots
- 10/100Base-T Ethernet (Gigabit optional)
- Rugged Aluminum die-cast housing with removable plastic front bezel
- Removable 3.5" HDD bay
- Optional 6-in-1 card reader (MS, SD, SM, MC and CF type I/II sockets)
- Resistive, capacitive, SAW and infrared touchscreens are available

Introduction

PPC-174T 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 PCI sockets for high expansion capacity. Because of its multifunctional design, the PPC-174T meets demands from multimedia applications and interactive kiosks that require big displays and more powerful computing performance.

Specifications

- **CPU** Supports Socket 478 based Pentium 4 CPU up to 3.06 GHz
- **Disk Drive Housing** Removable 3.5" HDD bay
- **Dimensions (W x H x D)** 446 x 382 x 127 mm (17.56" x 15.04" x 5")
- **Weight** 10 kg (22 lbs)
- **Front Panel Protection** IP 65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (3.5" HDD bay)
- **CD-ROM Drive (Default)** Compact 24X or above
- **DVD-ROM Drive (optional)** Optional 6X or above
- **Combo drive (Optional)** Optional DVD/CD-RW 8D/24W/24E/24R or above
- **Memory** Supports up to 2 GB DDR 333 SDRAM (184-pin)
- **FDD** Supports 720 KB/1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface (Gigabit optional)
- **I/O ports**
 - 3 x serial ports: 2 x RS-232, 1 x RS-232/422/485
 - Parallel port, 4 x USB 2.0 port
 - 2 x PCMCIA Type II
 - 6-in-1 cardreader: supports CompactFlash, Micro Drive, Smart Media, Secure Digital, Memory Stick & Multimedia Card
 - PS/2 mouse and keyboard interface
 - Mic-in, Line-in, Line-out, and game port
 - S-Video port
- **Bus Expansion** 2 x PCI expansion slots, 1 x Mini PCI card

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B, CCC
- **Safety** CB, CE, UL

Touchscreen (Optional)

Types	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	75%	91.5%	91%	91%
Controller	RS-232 interface			
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 150 mA	+5 V @ 150 mA
Software Driver	Supports both DOS and Windows			

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Colors or Grayscales** 262 K
- **Pixel Pitch (mm)** 0.264 x 0.264
- **Luminance (cd/m2)** 260
- **Contrast Ratio** 450:1
- **Viewing Angle** 70° (left), 70° (right), 70° (up), 70° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs

Power Supply

- **Output Rating** 180 W (max.)
- **Input Voltage** 100 ~ 240 V_{AC} @ 50 ~ 60Hz
- **Output Voltage** +3.3 V @ 16.8 A, +5 V @ 12 A, +12 V @ 10 A, -12 V @ 0.8 A, +5 VSB @ 2 A

Ordering Information

Part No.	Description
PPC-174T-BAREE	Panel PC with 17" TFT LCD display (resolution: 1280 x 1024)
PPC-174T-BARE-TE	PPC-174T with resistive touchscreen
PPC-174T-BARE-CE	PPC-174T with capacitive touchscreen
PPC-174T-BARE-SE	PPC-174T with SAW touchscreen
PPC-174 Stand	Stand kit for PPC-174T
PPC-174 SWINARM	VESA standard ARM for PPC-174T
PPC-174 WL-MT	Wall mount kit for PPC-174T
PPC-174 RACK-MT	19" Rack Mounting kit for PPC-174 (9U)

- * Intel Pentium 4 CPU, DDR SDRAM and 3.5" HDD are available as optional items.
- * FDD, CD-ROM and PCMCIA are removable as OEM items
- * Infrared touchscreen with sunlight readable panel could be ordered via OEM process, and both of items can be ordered separately

Feature Details

Protection

The PPC-174T 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

Three serial ports and a 10/100Base-T Ethernet port (Gigabit optional) give the PPC-174T advanced networking capabilities and provide the best solution for versatile applications.

Expansion

To extend its functionality, the PPC-174T is designed with two expansion slots for PCI cards, one Mini PCI slot, four USB 2.0 (Universal Serial Bus) ports, and one S-Video port, a 6-in-1 cardreader interface, and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-174T not only functions as a HMI, but also as a computing center around which to build your application.

Removable 3.5" HDD Bay

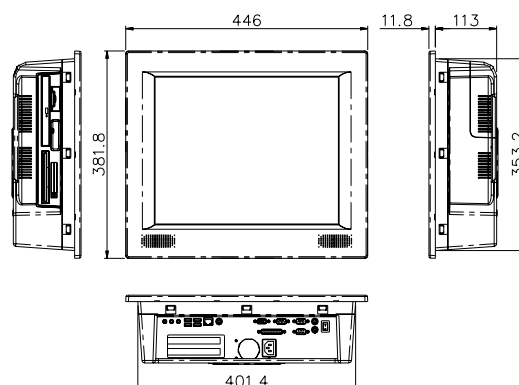
A 3.5" HDD is more reliable and cost-effective than a 2.5" HDD. The PPC-174T's 3.5" removable HDD drive bay provides great performance, and can be easily maintained.

Touchscreen Options

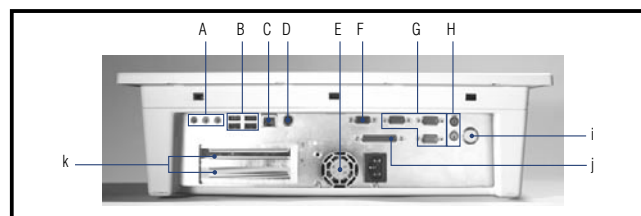
Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-174T a more user-friendly interface for different environments.

Dimensions

Unit: mm



Fully Integrated I/O



- | | |
|---------------------------------------|--------------------------|
| A. Line-in/Line-out/Mic-in | G. COM port x 3 |
| B. USB 2.0 x 4 | H. PS/2 mouse & keyboard |
| C. 10/100 Ethernet (Gigabit optional) | i. Power switch |
| D. S-Video | j. Parallel port |
| E. ATX power supply | k. PCI slot x 2 |
| F. VGA port | |



Removable 3.5" HDD bay

PPC-155T

Panel PC with 15" Color TFT LCD and Intel® Pentium®/Celeron® M Processor

NEW



Features

- 15" TFT XGA LCD
- Intel® Pentium®/Celeron® M up to 1.8 GB/1.5 GB
- System memory up to 2 GB DDR RAM
- Built-in CF card interface (IDE interface for OS booting)
- One PCI expansion slot
- Two 10/100Base-T Ethernet ports (second LAN port or Gigabit LAN are optional)
- Two IEEE 1394 ports
- Resistive, capacitive, SAW touch screen are available
- LED Indicator for Power, LAN and Hard Disk

Introduction

The PPC-155T is a Intel Pentium/Celeron M based Panel PC with 15" color TFT LCD (resolution up to 1024 x 768). 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.

Specifications

- **CPU** Supports Socket 478 based Pentium /Celeron M up to 1.8G /1.5G
- **Disk Drive Housing** Room for 1 x 2.5" HDD
- **Dimensions (W x H x D)** 396.5 x 317.6 x 102.5mm (15.6" x 12.5" x 4")
- **Front Panel Protection** IP65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (2.5" HDD bay)
- **CD-ROM Drive** Optional 24X or above
- **DVD-ROM Drive** Optional 16X or above
- **Combo Drive** Optional DVD/CD-RW 8D/24W/24E/24R or above
- **Memory** Supports up to 2 GB DDR SDRAM (184-pin)
- **FDD** Optional
- **Network (LAN)** 2 x ports 10/100Base-T Ethernet interface (second LAN port or Gigabit LAN are optional)
- **I/O Ports**
 - 3 x COM ports: 2 x RS-232, 1 x RS-232/422/485
 - 4 x USB 2.0 ports
 - 1 x PCMCIA Type II
 - 1 x PS/2 mouse and keyboard interface
 - Mic-in, Line-in, Line-out
 - 2 x IEEE 1394 ports
- **Bus Expansion** 1 x PCI expansion slot, 1 x Mini PCI card

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 5% ~ 85% non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B, CCC
- **Safety** CB, CE, UL

Power Supply

- **Output Rating** 130 W (max.)
- **Input Voltage** 100 ~ 250 Vdc @ 50 ~ 60 Hz
- **Output Voltage** +3.3 V @ 8.0 A, +5 V @ 12.0 A, +12 V @ 4.0 A, -12 V @ 0.2 A, +5 Vsb @ 2.0 A

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors or Grayscales** 262 K
- **Pixel Pitch (mm)** 0.297 x 0.297
- **Luminance (cd/m²)** 350
- **Contrast Ratio** 400 : 1
- **Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs

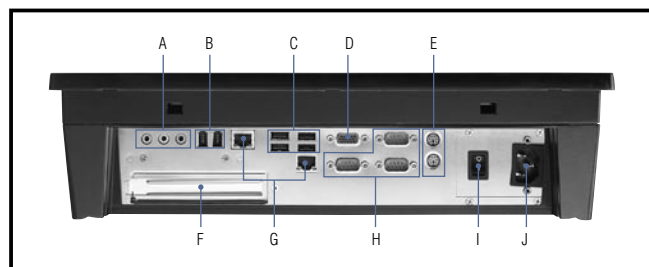
Touchscreen (Optional)

Types	Analog Resistive	Capacitive	Surface Acoustic Wave
Resolution	Continuous	1024 x 1024	4096 x 4096
Light Transmission	80%	91.5%	91%
Controller	RS-232 Interface	RS-232 Interface	RS-232 Interface
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 150 mA
Software Driver	Supports both DOS and Windows		
Durability (Touches lifetime)	35 million	225 million	50 million

Ordering Information

Part No.	Description
PPC-155T-BAREE	Panel PC with 15" color TFT LCD display (resolution 1024 x 768)
PPC-155T-BARE-TE	PPC-155T Bare BOM with resistive touchscreen
PPC-155T-BARE-CE	PPC-155T Bare BOM with capacitive touchscreen
PPC-155T-BARE-SE	PPC-155T Bare BOM with SAW touchscreen
PPC-155T STAND	Stand kit for PPC-154/155/174 Series
PPC-174 WL-MT	Wall mount kit for PPC-154/155 series
PPC-174 SWINARM	Swingarm kit for PPC-154/155/174 Series

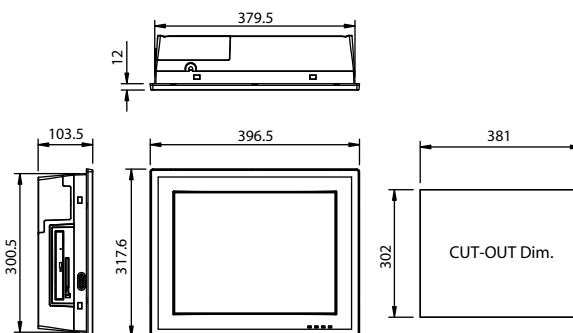
Fully Integrated I/O



- | | |
|-----------------------------|--|
| A. Line-in/Line-out /Mic-in | G. 10/100 Base-T Ethernet x 2 (Gigabit optional) |
| B. IEEE 1394 x 2 | H. RS-232 x 2, RS-232/422/485 x 1 |
| C. USB2.0 x 4 | I. Power switch |
| D. VGA port | J. AC Inlet |
| E. PS/2 mouse & keyboard | |
| F. PCI slot x 1 | |

Dimensions

Unit: mm



Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-155T complies with the IP65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function, which prevents the CPU from becoming overheated.

Networking

Three serial ports and two 10/100Base-T Ethernet ports (Second LAN port or Gigabit LAN are optional) gives the PPC-155T advanced networking capabilities, and provide a great solution for versatile applications.

Expansion

To extend functionality, the PPC-155T is designed with one expansion slot for PCI cards, four USB 2.0 (Universal Serial Bus) ports, and one PCMCIA card bus (Type II x 1). With these expansion capabilities, the PPC-155T not only functions as a HMI, but also as a computing center to build your applications on.

Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-155T modular design. In order to replace a defective LCD or touchscreen, one merely needs to remove the front cover and LCD bracket instead of disassembling the whole system.

Touchscreen Options

Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-155T a more user-friendly interface for different environments.

PPC-S155T

UltraSlim™ Panel PC with 15" Color TFT LCD Intel® Pentium®/Celeron® M Processor

NEW



Features

- 15" TFT XGA LCD
- Intel® Celeron®-M CPU up to 1.5 GHz/Pentium® up to 2.0 GHz
- System memory up to 2 GB DDR2 SDRAM
- Built-in speakers
- One Mini PCI socket
- Gigabit Ethernet
- Meets VESA standard
- Supports one internal CompactFlash® Type II socket (IDE interface)
- UltraSlim™ profile: only 49 mm (1.93") in depth
- ROHS compliant

Introduction

PPC-S155T is a high performance and UltraSlim 15" Panel Computer, incorporating all the features of a powerful computer packed into a slender, stylish housing. It is built with a 15" TFT XGA LCD, a high performance and low power consumption Intel Pentium/Celeron-M CPU up to 2.0 GHz, and Intel Graphics Media Accelerator 900 (Intel GMA 900) engine. The PPC-S155T provides a state-of-the-art information terminal or computing platform for POI, POS, HMI and Kiosk applications. The compact and slim design makes the PPC-S155T a breeze to install when space is limited.

Specifications

- CPU** Supports Socket 478 based Intel Celeron-M 1.5 GHz/Pentium-M up to 2.0 GHz Processor
- Memory** Supports up to 2 GB DDR2 SDRAM SODIMM
- SSD** Supports 1 x Internal CompactFlash Type II socket
- HDD** 1 x IDE HDD interface (2.5" HDD bay)
- FDD (optional)** Supports 720 KB/1.44 MB FDD
- CD-ROM Drive (optional)** Compact 24X or above
- Combo Drive (optional)** DVD/CD-RW 8D/24W/24E/24R or above
- DVD+/-RW(optional)** Optional 8X DVD+R/4X DVD-R/4X DVD+RW/4X DVD-RW/24X CD-R/10X CD-RW writing 8X DVD/24X CD read or above
- Network (LAN)** Gigabit Ethernet
- Bus Expansion** 1 x Mini PCI expansion slot
- Front Panel Protection** IP 65/NEMA 4 compliant
- Dimensions (W x H x D)** 375 x 299 x 49 mm (14.76" x 11.77" x 1.93")
- Weight** 4.9 kg (10.78 lbs)

LCD Display

- Display Type** 15" TFT
- Resolution** 1024 x 768
- Color** 256 K or above
- Pixel Pitch** 0.297 x 0.297 mm
- Brightness** 350 cd/m² (Typ.)
- Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- Simultaneous Mode** Yes (Optional)
- Backlight MTBF** 50,000 hrs

Touchscreen (Optional)

Type	Analog Resistive	Capacitive
Resolution	Continuous	1024 x 1024
Light Transmission	80%	91.5%
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA
Durability (Touches Lifetime)	35 millions	225 millions

Power adaptor

- Output Rating** 72W / 90W (Optional)
- Output Voltage** 19 V_{DC} @ 3.79 A (Typical)
- Input range** 100 V_{AC} ~ 240 V_{AC}

Environmental Specifications

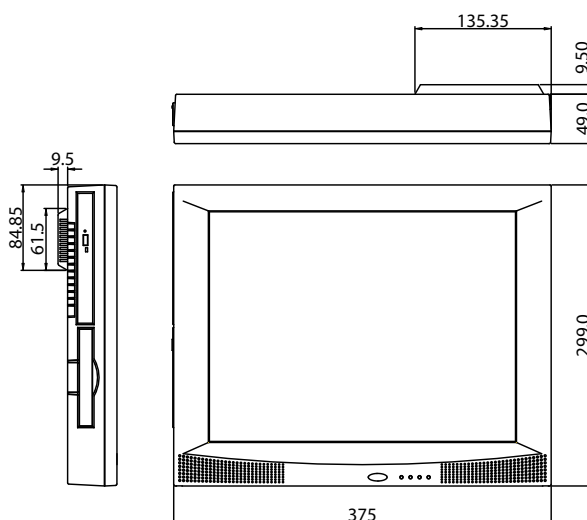
- Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- Shock** 10 G peak acceleration (11 msec. duration)
- EMC** CE, FCC Class B, BSMI, CCC
- Safety** UL, CE, CB

Ordering Information

Part No.	Description
PPC-S155T-090-XE	PPC-S155T Bare BOM with Glass
PPC-S155T-R90-XE	PPC-S155T Bare BOM with Resistive touchscreen.
PPC-S155T-C90-XE	PPC-S155T Bare BOM with Capacitive touch screen.
PPC-S153 STAND	Stand kit for PPC-S153T/S154T/S155T
PPC-S15X STAND-BLK	Black stand kit for PPC-S153T/S154T/S155T
PPC-S154 WL-MT	Wall mount kit for PPC-S154T/S155T
PPC-ARM-A01	VESA standard ARM for PPC series

Dimensions

Unit: mm (inch)



Feature Details

High-performance CPU and chipset

The PPC-S155T's Socket 478 CPU board supports a 533 MHz front side bus. The Intel Pentium M processor utilizes a new micro architecture to meet the current and future demands of high-performance, low-power embedded computing. The Intel 915 GM Express chipset integrates the Intel Graphics Media Accelerator 900 (Intel GMA 900) for superior graphics performance.

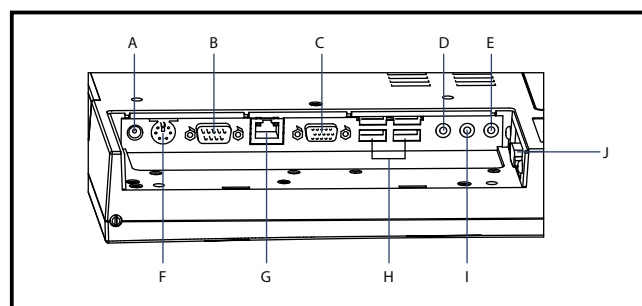
UltraSlim Profile

With dimensions of 375 x 299 x 49 mm, the PPC-S155T occupies much less space than previous panel computers. Thanks to its VESA compliant slim design, the PPC-S155T also provides flexible installations, such as wall mounting, hanging, swingarm mounting, or desktop stand mounting.

Networking and Expansion Capability

Two serial ports, four USB 2.0 ports and a Gigabit Ethernet controller endows the PPC-S155T with advanced networking capabilities and provide the best solution for versatile applications. With a built-in Type III Mini PCI socket, the PPC-S155T can offer connections with Type III Mini PCI 56 K modems, second Ethernet or WLAN cards for enhanced the networking capability. With a built-in internal CompactFlash Type II socket (IDE interface), the PPC-S155T can offer OS booting via CF type card.

Fully-Integrated I/O



- | | |
|-----------------|------------------|
| A. DC inlet | F. PS/2 |
| B. COM 1 | G. Ethernet jack |
| C. VGA | H. USB 2.0 x 4 |
| D. Mic-in jack | I. Line-out jack |
| E. Line-in jack | J. COM 3 |

PPC-154T

Panel PC with 15" Color TFT LCD and Intel® Pentium® 4 Processor



Features

- 15" TFT XGA LCD
- Intel® Pentium® 4 CPU up to 3.06 GHz
- System memory up to 2 GB DDR SDRAM
- Built-in FDD/CD-ROM drive
- Built-in PCMCIA Type II x 2
- One PCI expansion slot
- 10/100Base-T Ethernet (Gigabit optional)
- Two IEEE 1394 ports
- Optional 6-in-1 card reader (MS, SD, SM, MC and CF type I/II sockets)
- Resistive, capacitive, SAW and infrared touchscreen are available

Introduction

The PPC-154T is a Intel Pentium 4 based Panel PC with 15" color TFT LCD (resolution up to 1024 x 768). 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.

Specifications

- **CPU** Supports Socket 478 based Pentium 4 CPU up to 3.06 GHz
- **Disk Drive Housing** Room for 1 x 2.5" HDD
- **Dimensions (W x H x D)** 420 x 323.3 x 130.5 mm (16.54" x 12.72" x 5.12")
- **Weight** 7 kg (15.4 lbs)
- **Front Panel Protection** IP65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (2.5" HDD bay)
- **CD-ROM Drive** Compact 24X or above
- **DVD-ROM Drive** Optional 6X or above
- **Combo Drive** Optional DVD/CD-RW 8D/24W/24E/24R or above
- **Memory** Supports up to 2 GB DDR SDRAM (184-pin)
- **FDD** Supports 720 KB / 1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface (Gigabit optional)
- **I/O Ports**
 - 2 x serial ports: 1 x RS-232, 1 x RS-232/422/485
 - 1 x parallel port, 4 x USB 2.0 ports
 - 2 x PCMCIA Type II
 - 1 x PS/2 mouse and keyboard interface
 - Mic-in, Line-in, Line-out
 - 2 x IEEE 1394 ports
 - 6-in-1 card reader: supports CompactFlash, Micro Drive, Smart Media, Secure Digital, Memory Stick & Multimedia Card.
 - S-Video port
- **Bus Expansion** 1 x PCI expansion slot, 1 x Mini PCI card

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B, CCC
- **Safety** CB, CE, UL

Power Supply

- **Output Rating** 180 W (max.)
- **Input Voltage** 100~240 V_{AC} @ 50 ~ 60 Hz
- **Output Voltage** +3.3 V @16.8 A, +5 V@12 A, +12 V@10 A, -12 V@0.8 A, +5 VSB@2 A

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors or Grayscales** 262 K
- **Pixel Pitch (mm)** 0.297 x 0.297
- **Luminance (cd/m²)** 350
- **Contrast Ratio** 400 : 1
- **Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs

Touchscreen (Optional)

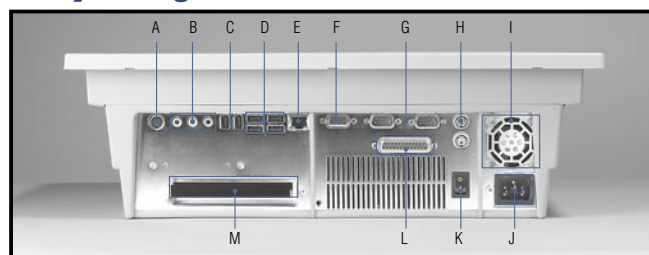
Types	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	80%	91.5%	91%	91%
Controller	USB Interface	USB Interface	USB Interface	USB Interface
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 150 mA	+5 V @ 150 mA
Software Driver	Supports both DOS and Windows			
Durability (Touches lifetime)	35 million	225 million	50 million	100,000 hrs

Ordering Information

Part No.	Description
PPC-154T-BAREE	Panel PC with 15" color TFT LCD display (resolution 1024 x 768)
PPC-154T-BARE-TE	PPC-154T with resistive touchscreen
PPC-154T-BARE-CE	PPC-154T with capacitive touchscreen
PPC-154T-BARE-SE	PPC-154T with SAW touchscreen
PPC-120 STAND	Stand kit for PPC-154/153/150 and PPC-123/120 series
PPC-154 SWINARM	Swingarm kit for PPC-154 series
PPC-120 WL-MT	Wall mount kit for PPC-154/153/150 and PPC-123/120 series
PPC-ARM-A01	VESA standard ARM for PPC-123/153/154 series series

- * Intel Pentium 4 CPU, DDR SDRAM and 2.5" HDD are available as optional items.
- * FDD, CD-ROM and PCMCIA are removable as OEM items
- * Infrared touchscreen with Sunlight readable panel could be ordered via OEM process; both items can be ordered separately

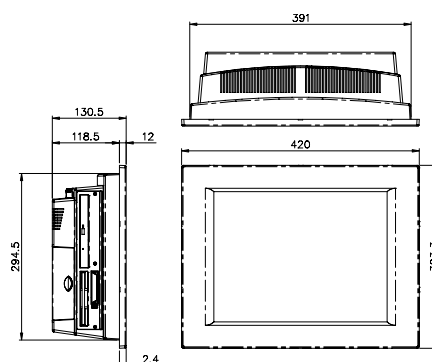
Fully Integrated I/O



- | | |
|---|--------------------------|
| A. S-Video | H. PS/2 mouse & keyboard |
| B. Line-in/Line-out/Mic-in | I. ATX Power Supply |
| C. IEEE 1394 x 2 | J. AC inlet |
| D. USB 2.0 x 4 | K. Power Switch |
| E. 10/100Base-T Ethernet (Gigabit Optional) | L. Parallel port |
| F. VGA port | M. PCI slot |
| G. Com port x 2 | |

Dimensions

Unit: mm



Feature Details

Protection

To meet the requirements of a public environment, the front panel of PPC-154T complies with the IP65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function, which prevents the CPU from becoming overheated.

Networking

Two serial ports and a 10/100Base-T Ethernet port (Gigabit optional) gives the PPC-154T advanced networking capabilities, and provide a great solution for versatile applications.

Expansion

To extend functionality, the PPC-154T is designed with one expansion slot for PCI cards, four USB 2.0 (Universal Serial Bus) ports, one S-Video port, a 6-in-1 cardreader interface and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-154T not only functions as a HMI, but also as a computing center to build your applications on.

Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-154T's modular design. In order to replace a defective LCD or touchscreen, one merely needs to remove the front cover and LCD bracket instead of disassembling the whole system.

Touchscreen Options

Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-154T a more user-friendly interface for different environments.

PPC-S154T

UltraSlim™ Panel PC with 15" Color TFT LCD
Intel® Pentium® 4 Processor M Processor



Features

- 15" TFT XGA LCD
- Mobile Intel® Pentium® 4 Processor-M CPU up to 2.2 GHz
- System memory up to 1 GB DDR SDRAM
- Built-in FDD/CD-ROM drive/speakers
- One Mini PCI expansion slot
- 10/100Base-T Ethernet (or Gigabit Ethernet for option)
- Meets VESA standard
- Supports one internal CompactFlash® Type II socket
- UltraSlim™ profile: only 49 mm (1.93") in depth

Introduction

PPC-S154T is a high performance and UltraSlim 15" Panel Computer, incorporating all the features of a powerful computer packed into a slender, stylish housing. Built with a 15" TFT XGA LCD, a powerful Mobile Intel Pentium 4 Processor-M CPU up to 2.2 GHz, and 3D display engine, the mobile Intel Pentium 4 Processor-M is the first Intel mobile processor with the Intel NetBurst™ micro-architecture. The PPC-S154T provides a state-of-the-art information terminal or computing platform for POI, multimedia and medical applications. Meanwhile, the compact and slim design makes the PPC-S154T flexible in installation, such as wall mounting, hanging, swingarm mounting, and desktop stand mounting.

Specifications

- **CPU** Supports Socket 478 based Mobile Intel Pentium 4 Processor-M CPU up to 2.2 GHz (Standard is built-in 1.7 GHz CPU)
- **Memory** Supports up to 1 GB DDR SDRAM SODIMM (Standard is built-in 256 MB SDRAM)
- **SSD** Supports 1 x internal CompactFlash Type II socket
- **HDD** 1 x IDE HDD interface (2.5" HDD bay)
- **FDD** Supports 720 KB / 1.44 MB FDD
- **CD-ROM Drive** Compact 24X or above
- **DVD-ROM Drive** Optional 6X or above
- **Network (LAN)** 10/100Base-T Ethernet interface (or Gigabit optional)
- **Bus Expansion** 1 x Mini PCI expansion slot
- **Front Panel Protection** IP 65/NEMA 4 compliant
- **Dimensions (W x H x D)** 375 x 299 x 49 mm (14.76" x 11.77" x 1.93")
- **Weight** 4.9 kg (10.78 lbs)

LCD Display

- **Display Type** 15" TFT
- **Resolution** 1024 x 768
- **Color** 256 K or above
- **Pixel Pitch** 0.297 x 0.297 mm
- **Brightness** 350 cd/m² (Typ.)
- **Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- **Simultaneous Mode** Yes (Optional)
- **Backlight MTBF** 50,000 hrs

Touchscreen (Optional)

- **Type** Analog resistive, continuous resolution
- **Light Transmission** 80%
- **Power Consumption** < 5 V @ 100 mA
- **Durability (Touch Lifetime)** 35 million

Power Supply

- **Output Rating** Onboard DC/DC ATX type power supply 70 W
- **Input Voltage** 24 V_{DC} (Typical)
- **Output Voltage** 5 V @ 12 A, 24 V @ 0.3 A
- **Adaptor** 100 V_{AC} ~ 240 V_{AC} to 19 V @ 3.79 A

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** CE, FCC Class B
- **Safety** UL, CE, CB

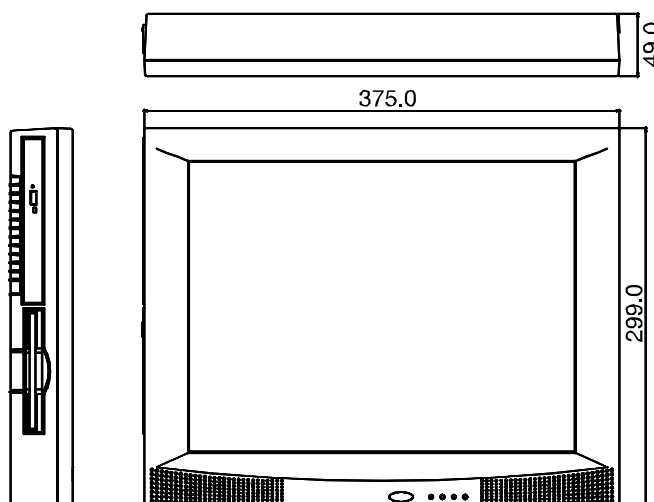
Ordering Information

Part No.	Description
PPC-S154T-080-XE	Bare BOM of PPC-S154T-080-XE Equips with built-in P4-M 1.7GHz Intel CPU, 256MB SDRAM and tempered glass
PPC-S154T-R80-XE	Bare BOM of PPC-S154T-R80-XE
PPC-S153 STAND	Stand kit for PPC-S153T/S154T
PPC-S15X STAND-BLK	Black stand kit for PPC-S153T/S154T
PPC-S154 WL-MT	Wall mount kit for PPC-S154T
PPC-ARM-A01	VESA standard ARM for PPC series

* P4-M 1.7 GHz CPU and 256 MB DDR are built-in

Dimensions

Unit: mm



Feature Details

High-performance CPU and Display

The PPC-S154T's Socket 478 CPU board with 400 MHz front side bus. Integrated with a 3D display controller and 15" XGA and true color LCD, the PPC-S154T also demonstrates its excellent display performance.

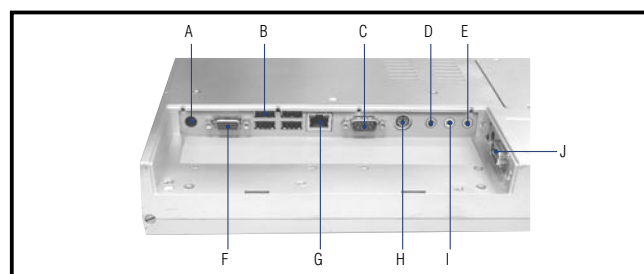
UltraSlim Profile

With a dimension of 375 x 299 x 49 mm, the PPC-S154T occupies much less space than previous panel computers. Thanks to its VESA compliant slim design, the PPC-S154T also provides flexible installations, such as wall mounting, hanging, swingarm mounting, or fixed on a desktop stand.

Networking and Expansion Capability

Two serial ports, four USB 2.0 ports and a 10/100Base-T or Gigabit Ethernet controller enable advanced networking capabilities and provide the best solution for versatile applications. With a built-in Type III Mini PCI socket, the PPC-S154T can offer connections with Type III Mini PCI 56 K modem or second Ethernet or WLAN card to enhance the networking capability. With a built-in internal CompactFlash, Type II socket, the PPC-S154T can offer connections with CF type storage. And also built-in Type III Mini PCI expansion slot, the PPC-S154T can expansively offer connections with Type III Mini PCI 56 K modem or second Ethernet or WLAN card to enhance the networking capability.

Fully-Integrated I/O



- | | |
|-----------------|------------------|
| A. DC inlet | F. VGA port |
| B. USB ports | G. Ethernet jack |
| C. COM1 | H. PS/2 port |
| D. Mic-in jack | I. Line-out jack |
| E. Line-in jack | J. COM2 |

PPC-153T

Panel PC with 15" Color TFT LCD and Intel® Pentium® III/Celeron® Processor



Features

- 15" TFT XGA LCD
- Intel® Pentium® III CPU up to 1.26 GHz or Intel Celeron® CPU up to 1.2 GHz
- System memory up to 1 GB SDRAM
- Built-in FDD/CD-ROM drive
- Built-in PCMCIA Type II x 2
- One PCI/ISA expansion slot
- 10/100Base-T Ethernet
- Removable front bezel

Introduction

The PPC-153T is a Intel Pentium III Socket 370 based Panel PC with 15" color TFT LCD (resolution up to 1024 x 768). It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface serves as an excellent host for information appliances.

Specifications

- **CPU** Supports Socket 370 based Pentium III CPU, up to 1.26 GHz or Celeron CPU up to 1.2 GHz
- **Disk Drive Housing** Room for 1 x 2.5" HDD
- **Dimensions (W x H x D)** 420 x 323 x 106 mm (16.54" x 12.72" x 4.17")
- **Weight** 6.5 kg (14.3 lbs)
- **Front Panel Protection** IP 65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (2.5" HDD bay)
- **CD-ROM Drive (default)** Compact 24X or above
- **DVD-ROM Drive** Optional 6X or above
- **Combo drive** Optional DVD/CD-RW 8D/24W/24E/24R or above
- **Memory** Supports up to 1 GB SDRAM (168-pin)
- **FDD** Supports 720 KB/1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface
- **I/O Ports**
 - 4 x serial ports: 3 x RS-232, 1 x RS-232/422/485
 - 1 x parallel port, 2 x USB ports
 - 2 x PCMCIA Type II
 - 1 x PS/2 mouse and keyboard interface
 - Mic-in, Line-in, Line-out, and game port
- **Bus Expansion** 1 x expansion slot for half-size PCI/ISA card

Power Supply

AC model

- **Output Rating** 80 W (max.)
- **Input Voltage** 100 ~ 250 V_{AC}, auto-switching @ 50 ~ 60 Hz
- **Output Voltage** +5 V @ 12 A, +12 V @ 1 A

DC 24/48V Model

- **Output Rating** 74 W
- **Input Voltage** 18 V_{DC} ~ 56 V_{DC}, typical 24 V_{DC} @ 7 A max, 48 V_{DC} @ 4 A max
- **Output Voltage** +5 V @ 10A, +12 V @ 1.5 A

DC 12V model (optional)

- **Output Rating** 80 W
- **Input Voltage** 9 V_{DC} ~ 18 V_{DC}, typical 12 V_{DC} @ 12 A max
- **Output Voltage** +5 V @ 10 A, +12 V @ 1.5 A

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B, CCC
- **Safety** UL, CB, CE

Touchscreen (Optional)

Types	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	80%	91.5%	91%	91%
Controller	RS-232 interface (uses COM4)			
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 150 mA	+5 V @ 150 mA
Software Driver	Supports both DOS and Windows			
Durability (Touches lifetime)	35 million	225 million	50 million	100,000 hrs

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors or Grayscales** 262 K
- **Pixel Pitch (mm)** 0.297 x 0.297
- **Luminance (cd/m²)** 350
- **Contrast Ratio** 400 : 1
- **Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness (0 ~ 100%)

Specifications Cont.

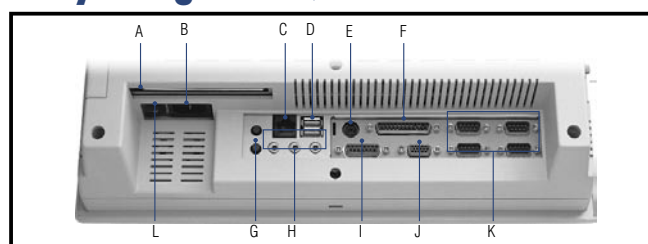
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs

Ordering Information

Part No.	Description
PPC-153T-CBARE	Panel PC with 15"/12.1" TFT LCD display (resolution: 1024 x 768)
PPC-153T-CBAR-TE	PPC-153T with resistive touchscreen
PPC-153T-CBAR-CE	PPC-153T with capacitive touchscreen
PPC-153T-CBAR-SE	PPC-153T with SAW touchscreen
PPC-153DC-CBARE	PPC-153T with DC power supply (74W 24 V _{DC} /48 V _{DC} are standard; 12 V _{DC} is optional)
PPC-153DC-CBA-TE	PPC-153T-DC with resistive touchscreen (74W 24 V _{DC} /48 V _{DC} are standard; 12 V _{DC} is optional)
PPC-120 STAND	Stand kit for PPC-154/153/150 and PPC-123/120 series
PPC-150 SWINARM	Swingarm kit for PPC-154/153/150 series
PPC-153 RACK-MT	19" Rack Mounting Kit for PPC-153(8U)
PPC-120 WL-MT	Wall mount kit for PPC-154/153/150 and PPC-123/120 series
PPC-ARM-A02	VESA standard ARM for PPC-123/153 series

- * Intel Pentium III and Celeron CPU, SDRAM and 2.5" HDD are available as optional items.
- * FDD, CD-ROM and PCMCIA are removable as OEM items
- * Infrared touchscreen with sunlight readable panel could be ordered via OEM process, and both of items can be ordered separately

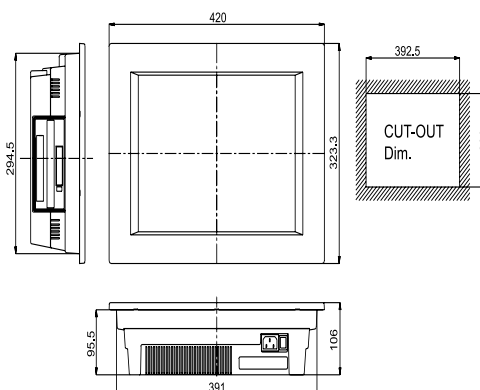
Fully Integrated I/O



- | | |
|-------------------------------|----------------------------|
| A. Expansion slot (PCI/ISA) | G. VR |
| B. AC-inlet | H. Mic-in/Line-out/Line-in |
| C. 10/100Base-T Ethernet port | I. MIDI/Game port |
| D. USB | J. VGA port |
| E. Keyboard/Mouse | K. COM ports |
| F. Parallel port | L. Power switch |

Dimensions

Unit: mm



Feature Details

Protection

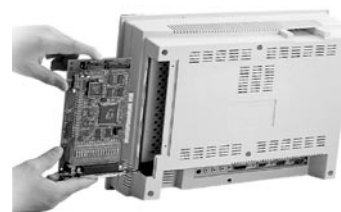
To meet the requirements of a public environment, the front panel of PPC-153T complies with the IP 65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function, which prevents the CPU from becoming overheated.

Networking

Four serial ports and a 10/100Base-T Ethernet controller give the PPC-153T advanced networking capabilities and provide the best solution for versatile applications.

Expansion

To extend functionality, the PPC-153T is designed with one expansion slot for PCI/ISA cards, two USB (Universal Serial Bus) ports, and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-153T does not only function as a HMI, but also as a computing center around which to build your application.



PCI/ISA expansion slot

Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-153T's modular design. In order to replace a defective LCD or touchscreen, one merely needs to remove the front cover and LCD bracket instead of disassembling the whole system.

Touchscreen Options

Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-153T a more user-friendly interface for different environments.

PPC-123T

Panel PC with 12.1" Color TFT LCD and Intel® Pentium® III/Celeron® Processor



Features

- 12.1" TFT SVGA LCD
- Intel® Pentium® III CPU up to 1.26 GHz or Intel Celeron® CPU up to 1.2 GHz
- System memory up to 1 GB SDRAM
- Built-in FDD/CD-ROM drive/speakers
- Two built-in PCMCIA Type II
- One PCI/ISA expansion slot
- 10/100Base-T Ethernet
- IrDA Data transmission

Introduction

PPC-123T is an Intel Pentium III Socket 370 based Panel PC with 12.1" TFT color LCD (resolution up to 800 x 600). It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, the user-friendly interface serves as a great host for information appliances.

Specifications

- **CPU** Supports Socket 370 based Pentium III CPU up to 1.26 GHz or Celeron CPU up to 1.2 GHz
- **Disk Drive Housing** Room for 1 x 2.5" HDD
- **Dimensions (W x H x D)** 375 x 285.5 x 104.4 mm (14.76" x 11.24" X 4.11")
- **Weight** 5.2 kg (11.5 lbs)
- **Front Panel Protection** IP 65/NEMA 4 compliant
- **HDD** IDE HDD interface (2.5" HDD bay)
- **CD-ROM Drive** Compact 24X or above
- **DVD-ROM Drive** Optional 6X or above
- **CD-RW Drive** Optional 8X/4X/24X or above
- **Memory** Supports up to 1 GB SDRAM (168-pin)
- **FDD** Supports 720 KB / 1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface
- **I/O ports**
 - 4 x serial ports: 3 x RS-232, 1 x RS-232/422/485
 - 1 x parallel port, 2 x USB ports
 - 2 x PCMCIA Type II
 - 1 x PS/2 mouse and keyboard interface
 - Mic-in, Line-in, Line-out, and game port
- **Bus Expansion** 1 x expansion slot for half-size PCI/ISA card

Power Supply

AC Model

- **Output Rating** 80 W (max.)
- **Input Voltage** 100 ~ 250 V_{AC}, auto-switching @ 50 ~ 60 Hz
- **Output Voltage** +5 V @ 12 A, +12 V @ 1 A

DC 24/48V Model

- **Output Rating** 74 W
- **Input Voltage** 18 V_{DC} ~ 56 V_{DC}, typical 24 V_{DC} @ 7 A max, 48 V_{DC} @ 4 A max
- **Output Voltage** +5 V @ 10A, +12 V @ 1.5 A

DC 12V Model (optional)

- **Output Rating** 80 W
- **Input Voltage** 9 V_{DC} ~ 18 V_{DC}, typical 12 V_{DC} @ 12A max
- **Output Voltage** +5 V @ 10A, +12 V @ 1.5A

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95 % @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B, CCC
- **Safety** UL, CSA, CE

Touchscreen (Optional)

Types	Analog Resistive	Capacitive	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096
Light Transmission	75%	91.5%	91%
Controller	RS-232 interface(uses COM4)		
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 150 mA
Software Driver	Supports both DOS and Windows		
Durability (Touches lifetime)	30 million	225 million	100,000hrs

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 12.1"
- **Max. Resolution** 800 x 600
- **Max. Colors or Grayscale** 256 K
- **Pixel Pitch (mm)** 0.31 x 0.31
- **Luminance (cd/m²)** 400
- **Viewing Angle** 70° (left), 70° (right), 60° (up), 50° (down)
- **Operating Temperature** -10 ~ 65° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **Backlight MTBF** 50,000 hrs

Ordering Information

Part No.	Description
PPC-123T-CBARE	Panel PC with 12.1" TFT LCD display (resolution: 800 x 600)
PPC-123T-CBAR-TE	PPC-123T with resistive touchscreen
PPC-123T-CBAR-CE	PPC-123T with capacitive touchscreen
PPC-123T-CBAR-SR	PPC-123T with Infrared touchscreen with sunlight readable panel
PPC-123EW-CBA-TE	PPC-123T Bare BOM without PCMCIA/CD-ROM
PPC-123DC-CBARE	PPC-123T with DC power supply (74W 24 V _{DC} /48 V _{DC} are standard; 12 V _{DC} is optional)
PPC-123DC-CBA-TE	PPC-123T-DC with resistive touchscreen (74W 24 V _{DC} 48 V _{DC} are standard; 12 V _{DC} is optional)
PPC-120 STAND	Stand kit for PPC-154/153/150 and PPC-123/120 series
PPC-120 SWINARM	Swingarm kit for PPC-123/120 series
PPC-120 WL-MT	Wall mount kit for PPC-154/153/150 and PPC-123/120 series
PPC-ARM-A02	VESA standard ARM for PPC-123/153 series

- * Intel Pentium III and Celeron CPUs, SDRAM and 2.5" HDD are available as optional items.
- * FDD, CD-ROM and PCMCIA are removable as OEM items
- * Infrared touchscreen and sunlight readable panel can be separated as OEM items

Feature Details

Protection

To meet the requirements of a public environment, the front panel of PPC-123T complies with the IP65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function, which prevents the CPU from becoming overheated.

Networking

Four serial ports and a 10/100Base-T Ethernet controller give the PPC-123T advanced networking capabilities and provide a great solution for versatile applications.

Expansion

To extend functionality, the PPC-123T is designed with one expansion slot for PCI/ISA cards, two USB (Universal Serial Bus) ports, and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-123T does not only function as a HMI, but also as a computing center around which to build your application.

Touchscreen Options

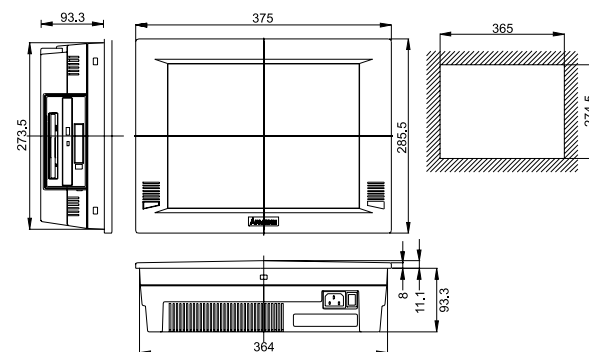
You can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-123T a more user-friendly interface for different environments.



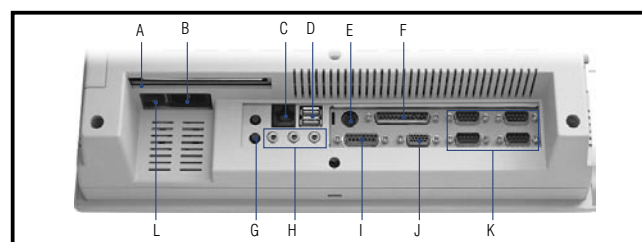
Side-access CD-ROM, FDD and PCMCIA slot

Dimensions

Unit: mm



Fully Integrated I/O



- | | |
|-------------------------------|----------------------------|
| A. Expansion slot (PCI/ISA) | G. VR |
| B. AC-inlet | H. Mic-in/Line-out/Line-in |
| C. 10/100Base-T Ethernet port | I. MIDI/Game port |
| D. USB | J. VGA port |
| E. Keyboard/Mouse | K. COM ports |
| F. Parallel port | L. Power switch |

PPC-S123T

UltraSlim™ Panel PC with 12.1" Color TFT LCD and Intel® Pentium® III Processor



Features

- 12.1" TFT SVGA LCD
- Intel® Pentium® III processor CPU up to 850 MHz
- System memory up to 512 MB SDRAM
- One (optional) PCI/ISA expansion kit
- 10/100Base-T Ethernet
- UltraSlim profile: only 54.5 mm (2.15") in depth
- Removable hard drive module
- External IDE/FDD connectors

Introduction

PPC-S123T includes all the features of a powerful computer packed into a slender, stylish housing. The high performance and UltraSlim 12.1" panel computer maintenance. only 54.5 mm in depth. It incorporates a 12.1" TFT LCD, powerful Intel Pentium III CPU up to 850 MHz, plug-in hard drive module and external IDE/FDD connectors for easy maintenance. The PPC-S123T provides a state-of-the-art information terminal or computing platform for semiconductor applications. It is also a perfect operator interface for applications that have space limitations.

Specifications

- **CPU** Supports Socket 370 based Pentium III CPU up to 850 MHz
- **Disk Drive Housing** Room for for 1 x 2.5" HDD and 1 x Type I CompactFlash socket
- **Dimensions(W x H x D)** 311 x 237 x 54.5 mm (12.24" x 9.33" x 2.15")
- **Weight** 2.6 kg (5.8 lbs)
- **Front Panel Protection** IP 65/NEMA 4 compliant
- **HDD** IDE HDD interface (2.5" HDD bay), easy removable
- **Memory** Supports up to 256 x 2 MB SDRAM SODIMM
- **Network (LAN)** 10/100Base-T Ethernet interface
- **I/O ports**
 - 4 x serial ports: 3 x RS-232, 1 x RS-232/422/485
 - 1 x parallel port, 2 x USB ports
 - 1 x PS/2 mouse and keyboard interface
 - Line-in, Line-out
- **Bus Expansion** 1 x optional PCI/ISA expansion slot

Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** CE, FCC Class B
- **Safety** UL, CSA, CE

Power Supply (DC/DC converter)

- **Output Rating** 60 W
- **Input Voltage** 18 V_{DC} ~ 25 V_{DC}, 4 A max.
- **Output Voltage** +5 V @ 8 A, +12 V @ 1.5 A, -12 V @ 0.4 A

Power Adaptor

- **Input Voltage** 100 V_{AC} ~ 240 V_{AC}
- **Output Voltage** 19 V @ 3.79 A

LCD Display

- **Display Type** 12.1" TFT
- **Resolution** 800 x 600
- **Color** 256 K or above
- **Pixel Pitch** 0.3075 x 0.3075 mm
- **Brightness** 400 cd/m²
- **Viewing Angle** 70° (left), 70° (right), 60° (up), 50° (down)
- **Brightness Control** Yes
- **Backlight MTBF** 50,000 hrs

Touchscreen (Optional)

- **Type** Analog resistive
- **Resolution** Continuous
- **Light Transmission** 75%
- **Controller** RS-232 interface
- **Power Consumption** < 5 V @ 100 mA
- **Software Driver** Supports Microsoft Windows 98/NT/2000/ME/XP
- **Durability (Touch lifetime)** 10 million times

Ordering Information

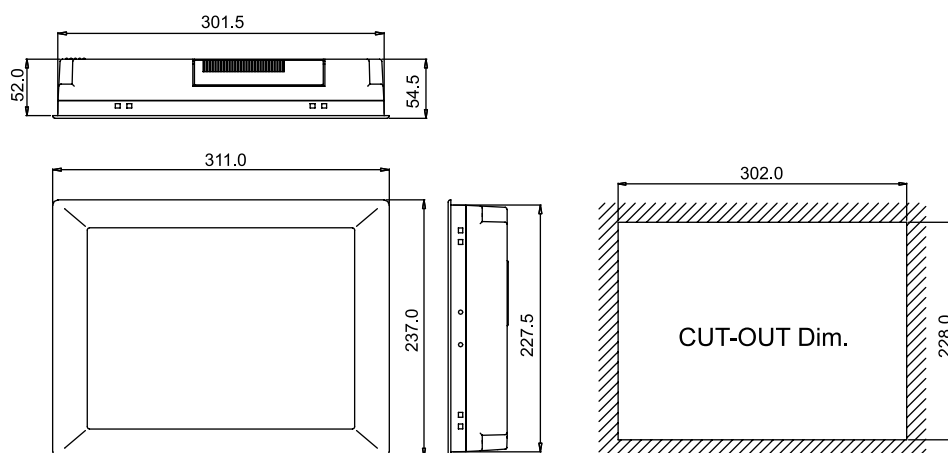
Part No.	Description
PPC-S123T-071-XE	Bare BOM of PPC-S123T-071-XE equips
PPC-S123T-R71-XE	Bare BOM of PPC-S123T-R71-XE equips with Resistive touchscreen

Optional Items

Part No.	Description
PPC-EXP-S123	Expansion kit for PPC-S123T
PPC-S123 WL-MT	Wall mount kit for PPC-S123T
PPC-S123RACK-MT	19" Rack Mounting Kit for PPC-S123 (6U)
PPC-ARM-A01	VESA standard ARM for PPC series

Dimensions

Unit: mm



Feature Details

High Performance in Both CPU and Display

PPC-S123T incorporates a socket 370 CPU board with 100 MHz front side bus, which can support Intel Pentium III 850 MHz CPU. With a 300 cd/m², 12.1" SVGA LCD, the PPC-S123T also shows great and powerful display performance.

Plug-in HDD Module and External IDE/FDD Connectors

The hard drive is removable without disassembling the system, and external IDE/FDD connectors can connect an external CD-ROM drive and floppy drive for easy maintenance.

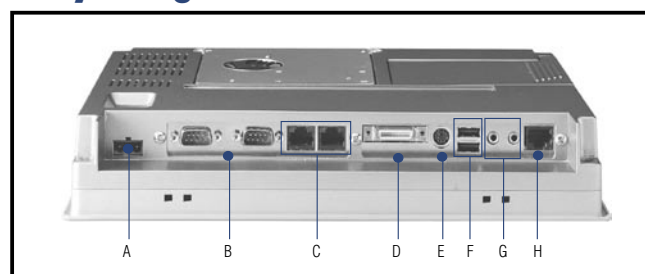
UltraSlim Profile

With a dimension of 311 x 237 x 54.5 mm, the PPC-S123T occupies much less space than previous panel computers. Thanks to its VESA compliant slim design, the PPC-S123T also provides flexibility in its installation, such as wall mounting, hanging, swingarm mounting, or fixed on a desktop stand.

Networking and Expansion Capability

Four serial ports, two USB ports and a 10/100Base-T Ethernet controller give the PPC-S123T advanced networking capabilities and provide the best solution for versatile applications. With an optional PCI/ISA expansion kit, the PPC-S123T can offer connection with customer's add-on card with either PCI interface or ISA interface.

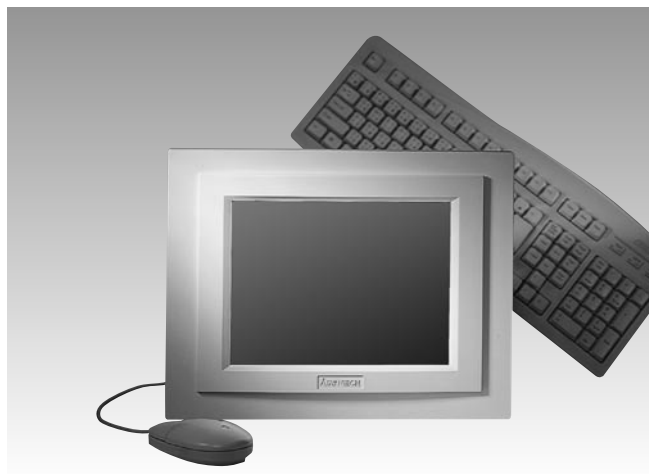
Fully Integrated I/O



- | | |
|------------------|-------------------------------|
| A. DC inlet | E. Keyboard/mouse |
| B. COM1 & COM2 | F. USB port |
| C. COM3 & COM4 | G. Line-in/Line-out |
| D. Parallel port | H. 10/100Base-T Ethernet port |

PPC-103T

Panel PC with 10.4" Color TFT LCD and Intel® Pentium® III/Celeron® Processor



Features

- 10.4" TFT SVGA LCD
- Intel® Pentium® III and Celeron® CPU up to 850 MHz
- System memory up to 512 MB SDRAM
- One optional PCI/ISA expansion slot
- One CompactFlash® Type I and II socket (True IDE Mode)
- 10/100Base-T Ethernet
- External IDE/FDD connectors

Introduction

The Panel PC, PPC-103T, integrates a 10.4" SVGA TFT LCD display into a stylish and flame-resistant chassis with a depth of 61.5 mm (2.4"). It can support high performance Intel Celeron and Pentium III processors. The PPC-103T's high-brightness 800 x 600 SVGA LCD display, built-in 16-bit Sound Blaster® compatible audio controller, up to 512 MB SDRAM capacity and 10/100Base-T Ethernet controller provide integration capability to meet different application needs.

Specifications

- **Display** 10.4" SVGA TFT LCD
- **CPU** Supports Intel Pentium III and Intel Celeron processors, up to 850 MHz
- **Memory** Up to 512 MB SODIMM
- **HDD** 1 x EIDE interface, 2.5" type
- **FDD** Supports 1 x external FDD connector
- **SSD** Supports 1 x CompactFlash Type I and II Socket (True IDE Mode)
- **I/O ports**
 - 4 x serial ports: 3 x RS-232, 1 x RS-232/422/485
 - 1 x parallel port, 2 x USB
 - External VGA port
 - PS/2 mouse and keyboard
 - Built-in Mic-in / Line-out jacks
- **Network** 10/100Base-T Ethernet interface
- **Dimensions (W x H x D)** 342 x 265 x 92.4 mm (13.5" x 10.4" x 3.64")
- **Weight** 3.5 kg (7.7 lbs)

LCD Display

- **Display Type** 10.4" SVGA TFT LCD
- **Max. Resolution/Colors** 800 x 600 @ 256 K
- **Pixel Pitch (mm)** 0.264 x 0.264
- **Luminance (cd/m²)** 230
- **Viewing Angle** 60/60/35/65 (L/R/U/D)
- **Temperature** 0 ~ 50° C
- **VR Controls** Yes
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs
- **Contrast** 500 : 1

Power Supply

AC model

- **Output Rating** 60 W
- **Input Voltage** 100 ~ 240 V_{AC} @ 50/60 Hz, autoranging
- **Output Voltage** +5 V @ 5 A, +12 V @ 3 A

DC model

- **Output Rating** 75 W
- **Input Voltage** 18 V_{DC} ~ 36 V_{DC}, typical 24 V_{DC}, 4.2 A max
- **Output Voltage** +5 V @ 8 A, +12 V @ 2.5 A

DC model (optional)

- **Output Rating** 65 W
- **Input Voltage** 9.5 V_{DC} ~ 18 V_{DC}, typical 12 V_{DC}, 6.8 A max
- **Output Voltage** +5 V @ 7 A, +12 V @ 2 A

Touchscreen (optional)

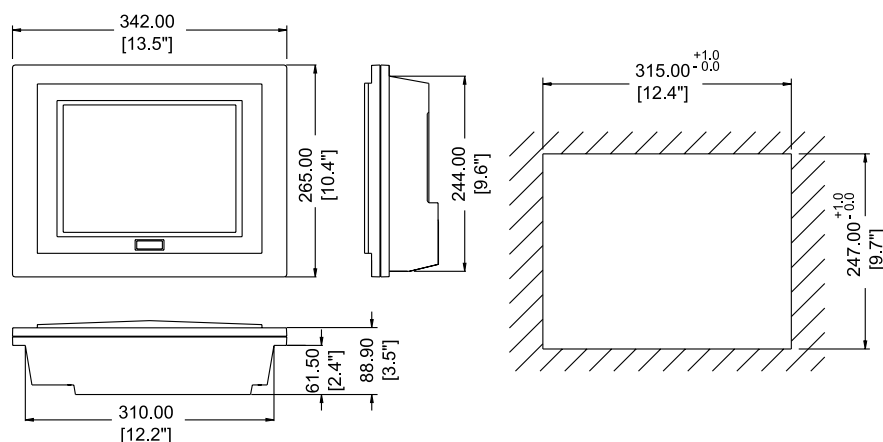
- **Type** Analog resistive Infrared
- **Resolution** Continuous 4096 x 4096
- **Light Transmission** 75% 91%
- **Controller** RS-232 interface (COM 4) RS-232 interface (COM4)
- **Power Consumption** +5 V @ 200 mA +5 V @ 150 mA
- **Software Driver** Supports both DOS and Windows®
- **Lifetime** 10 million 100,000 hrs

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)
- **EMC** CE, FCC Class B, VCCI, CCC
- **Safety** UL, CE
- **Front Panel Protection** IP 65/NEMA 4 compliant

Dimensions

Unit: mm (inch)

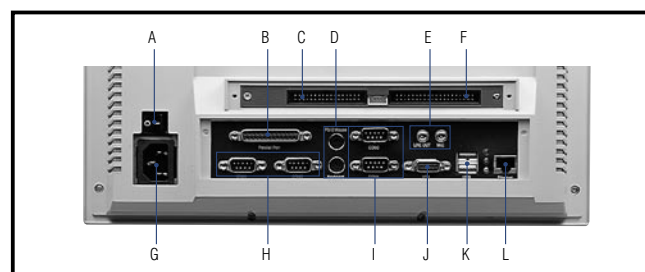


Ordering Information

Part No.	Description
PPC-103T-BBARE	Bare BOM: PPC-103T-BBARE Intel Pentium III, Intel Celeron Panel PC with 10.4" TFT SVGA LCD display
PPC-103DC-BBARE	Bare BOM: PPC-103DC-BBARE PPC-103T with 24V _{DC} power supply (12 V _{DC} is optional)
PPC-103T-BBAR-TE	Bare BOM: PPC-103T-BBAR-TE
	PPC-103T with resistive touchscreen
PPC-103DC-BBA-TE	Bare BOM: PPC-103DC-BBA-TE
	PPC-103T-RT with 24V _{DC} power supply (12 V _{DC} is optional)
PPC-100 STAND	Stand kit for PPC-100/103 series
PPC-100 SWINARM	Swingarm kit for PPC-100/103 series
PPC-100 WALL-MT	Wall mount kit for PPC-100/103 series
PPC-EXP-103	PCI/ISA expansion kit for PPC-103

* Infrared touchscreen with Sunlight readable panel could be ordered via OEM process, and both of items can be ordered separately

Fully-Integrated I/O



- | | |
|--------------------------|--------------|
| A. Power switch | G. AC inlet |
| B. Parallel port | H. COM ports |
| C. FDD port | I. COM ports |
| D. PS/2 mouse & keyboard | J. VGA port |
| E. Mic-in/Line-out | K. USB ports |
| F. IDE port | L. Ethernet |

Applications

- Point-of-information/Point-of-sales terminals
- Interactive kiosks
- Entertainment terminals
- Banking/Office automation
- Production process control
- Factory automation systems

PPC-L156T

Fanless Panel PC with 15" TFT LCD & Touchscreen and Intel Celeron M® Pentium M® Processor



Features

- 15" TFT XGA LCD
- Embedded Intel® ULV Celeron® M 800 MHz/Pentium® M 1.1 GHz
- Support for up to 2 GB Double Data Rate (DDR) memory
- Two built-in 1 W speakers
- One Mini PCI slot and one CF module slot
- Fanless and ultra-low power consumption
- Automatic data flow control over RS-485
- 10/100Base-T or Gigabit Ethernet with boot on LAN
- Removable front bezel
- Optional Smart Battery Module with UPS functionality
- Optional wireless antenna and one optional PCI expansion kit

Introduction

The PPC-L156T is a 15" fanless panel computer which is the ideal solution for low noise operating environments and clean room applications. PPC-L156T has two power sources; an optional battery pack and AC power supply. The battery charges when the PPC-L156T is connected to the AC power adapter. The optional rechargeable battery pack has more than 60 minutes battery life and can be used as an UPS during expected loss of power. The PPC-L156T meets the VESA standard for mounting holes so it can be used in many different kinds of installations. The front bezel can be removed to make maintenance of the LCD and touchscreen easier and quicker.

Specifications

- **CPU** Embedded Intel ULV Celeron 1.0 GHz
Embedded Intel Pentium M 1.1 GHz
- **Secondary Cache** N/A (PPC-L156T-R83-XE)
1 MB (PPC-L156T-R81-XE)
- **Chipset** Intel 852GM/ICH4 (PPC-L156T-R83-XE)
Intel 855GME/ICH4 (PPC-L156T-R81-XE)
- **Memory** 2 x 200-pin SO-DIMM sockets, supporting
DDR200/266 modules for up to 2 GB
Standard is built-in 256 MB
- **BIOS** AWARD® 4 Mbit Flash BIOS
- **SSD** Supports CompactFlash card type I/II
- **HDD** 1 x internal 2.5" IDE interface
- **I/O Ports**
 - 3 x serial: 2 x RS-232, 1 x RS-232/422/485 (COM2)
 - 4 x USB 2.0 ports: 2 x external, 2 x internal
 - 1 x PS/2 mouse and keyboard port
 - 1 x VGA port, 1 x Parallel port
 - 2 x built-in speakers (1 W each)
 - 2 x type II PCMCIA ports
 - Line-in, Line-out & Mic-in port
- **Bus Expansion** 1 x Mini PCI socket and 1 x 32-bit PCI expansion kit (optional)
- **Dimensions (W x H x D)** 415 x 333 x 76.5 (16.3" x 13.1" x 3.0")
- **Weight** 6 kg
- **COMBO Drive** Optional DVD/CD-RW 8D/24W/24E/24R or above

Ethernet

- **Chipset** Intel 82551QM, and 82541GI
- **Speed** 10/100 Mbps; 10/100/1000 Mbps (optional)

Power Supply

- **DC to DC Converter** Input voltage: 18 ~ 25 V_{DC}
- **AC to DC Converter**
 - Input Voltage: 100 ~ 240 V_{AC} @ 50 ~ 60 Hz
 - Output Voltage: 19 V @ 3.16 A

LCD Display

- **Display Type** 15" Color TFT LCD
- **Max. Resolution** 1024 x 768
- **Max. Colors** 262 K
- **Dot Size (mm)** 0.297 x 0.297
- **Luminance (cd/m²)** 350 cd/m²
- **Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- **Operating Temperature** 0 ~ 50° C
- **Brightness Adjustment** Yes
- **Backlight Lifetime** 50,000 hours

Touchscreen (Optional)

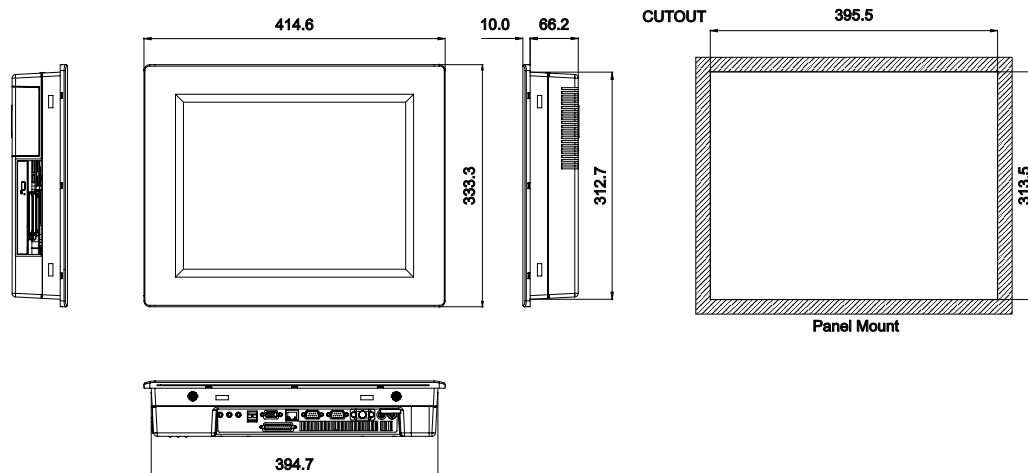
Types	Analog Resistive	Capacitive	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096
Light Transmission	80%	90%	90%
Controller	RS-232 Interface (uses COM4)		
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 100 mA
Software Driver	Supports both DOS and Windows		
Durability (Touches lifetime)	35 million	225 million	100,000 hrs

Environmental Specifications

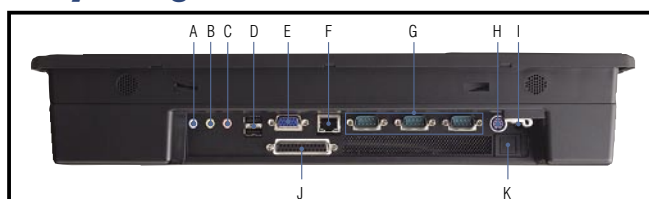
- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 ms duration)
- **Vibration** 1 G
- **EMC** CE, FCC Class B, BSMI
- **Safety** CE-CB, UL, BSMI, CCC
- **Front Panel Protection** IP65/NEMA4 compliant

Dimensions

Unit: mm



Fully Integrated I/O



- A. Line-in
- B. Line-out
- C. Mic-in
- D. USB 2.0 x 2
- E. VGA port
- F. 10/100Base-T Ethernet
- G. COM port x 3
- H. PS/2 mouse and keyboard port
- I. DC inlet
- J. Parallel port
- K. Power switch

Ordering Information

Part No.	Description
PPC-L156T-R83-XE	Intel ULV Celeron M 1.0 GHz processor-based Fanless Panel Computer with 15" TFT LCD, Resistive Touchscreen
PPC-L156T-R81-XE	Intel Pentium M 1.1 GHz processor-based Fanless Panel Computer with TFT 15" LCD, Resistive Touchscreen
PPC-L156T-C83-XE	Intel ULV Celeron M 1.0 GHz processor-based Fanless Panel Computer with TFT 15" LCD, Capacitive Touchscreen
PPC-L156T-C81-XE	Intel Pentium M 1.1 GHz processor-based Fanless Panel Computer with TFT 15" LCD, Capacitive Touchscreen
PPC-L156T-V83-XE	Intel ULV Celeron M 1.0 GHz processor-based Fanless Panel Computer with TFT 15" LCD, vandal proof infrared touchscreen (meets 60950/UL1950)
PPC-L156T-V81-XE	Intel Pentium M 1.1 GHz processor-based Fanless Panel Computer with TFT 15" LCD, vandal proof infrared touchscreen (meets 60950/UL1950)
PPC-S15X Stand-BLK	Desktop Stand, Black, PPC-S15X
PPC-ARM-A01	VESA Standard ARM for PPC series
PPC-L126 BP	Rechargeable Li-ion 3S2P 11.1 V 4000 mAh battery
PPC-174 WL-MT	Wall mount kit for PPC-174T
PPC-EXP-L156	PCI expansion kit for PPC-L156T

Feature Details

Protection

To meet the requirements of a public environment, the front panel of PPC-L156T complies with the IP65/NEMA4 protection standard. The watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function, which prevents the CPU from becoming overheated.

Networking

Three serial ports and a 10/100Base-T Ethernet port (Gigabit optional) gives the PPC-L156T advanced networking capabilities, and provide a great solution for versatile applications.

Expansion

To extend functionality, the PPC-L156T is designed with one expansion slot for 32-bit PCI cards, one Mini PCI socket, four USB 2.0 (Universal Serial Bus) ports, two RS-232 ports, one RS-232/422/485 port, one VGA port, and two PCMCIA CardBus ports. With these expansion capabilities, the PPC-L156T not only functions as a HMI, but also as a computing center to build your applications on.

Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-L156T's modular design. In order to replace a defective LCD or touchscreen, one merely needs to remove the front cover and LCD bracket instead of disassembling the whole system.

Touchscreen Options

Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and infrared. These options make the PPC-L156T a more user-friendly interface for different environments.

PPC-L127T

Fanless Panel PC with 12.1" TFT LCD & Touchscreen and Intel® Celeron® M Processor

NEW



Features

- 12.1" TFT SVGA LCD
- Embedded Intel® ULV Celeron® M 1GHz
- System memory up to 1 GB SDRAM
- Supports six USB 2.0 ports
- One CompactFlash® Type II socket (True IDE Mode), one Mini PCI socket
- Optional one PCI/ISA expansion kit
- Optional Smart Battery Module with UPS functionality
- Windows CE, NET, XPE available
- 10/100Base-T Ethernet
- Removable front bezel
- Fanless and ultra-low power consumption
- Automatic data flow control over RS-485 (COM2)
- Support GPIO function

Introduction

The PPC-L127T is a panel computer designed without a fan, which makes it an ideal solution for low noise operating environments and clean room applications. PPC-L127T has two power sources; an optional battery pack and an AC power supply. The battery charges when the PPC-L127T is connected to the AC power adapter. The optional rechargeable battery pack has more than 60 minutes battery life and can be used as a UPS during unexpected loss of power. The smart battery indicates state of charge and the percentage of remaining power. PPC-L127T's ultra-low power consumption saves energy and maximizes battery life. PPC-L127T meets the VESA standard for mounting holes so that it can be used in many different kinds of installations. The front bezel can be removed to make maintenance of the LCD and touchscreen easier and quicker. The support for one CompactFlash disk also makes system maintenance more convenient.

Specifications

- **CPU** Embedded Intel ULV Celeron M 1.0 GHz
 - **Secondary Cache** N/A Cache
 - **Memory** 1 x 184-pin DIMM sockets, supporting DDR200/266 modules for up to 1 GB
 - **Combo drive** Optional DVD/CD-RW 8D/24W/24E/24R or above
 - **SSD** 1 x type II CompactFlash socket, built-in 64 MB CF card in PPC-L127T-CE-RTE.
 - **HDD** 1 x internal IDE interface, 2.5" type
 - **Network (LAN)** 10/100Base-T Ethernet
 - **Fully Integrated I/O and Speakers**
 - 4 x serial ports: RS-232 x 3, RS-232/422/485 x 1
 - 1 x parallel port
 - 6 x USB ports (4 x external, 2 x internal)
 - 1 x PS/2 mouse and keyboard
 - Mic-in, Line-in, Line-out
 - 1 x VGA port
 - 2 x 1.3 W speakers
 - 8-bit GPIO through COM3
 - **Bus Expansion** 1 x expansion slot for PCI/ISA card
1 x MINI PCI expansion slot
 - **Front Panel Protection** IP 65/NEMA 4 compliant
 - **Weight** 3.25 kg (7.151 lb)
 - **Dimensions (W x H x D)** 340.5 x 269.3 x 70.5 mm (13.41" x 10.6" x 2.78")
- Power supply**
- DC/DC converter**
- **Input Voltage** 12 V - 25 V, 4 A max
Optional 12- 32 V (without Battery function)

LCD Display

- **Display Type** 12.1" TFT LCD
- **Max. Resolution** 800 x 600
- **Colors** 262 K
- **Dot Size (mm)** 0.3075 x 0.3075
- **Viewing Angle** 70° (left), 70° (right), 60° (up), 50° (down)
- **Luminance** 400 cd/m²
- **Operating Temperature** 0 ~ 50° C
- **Brightness Control** Yes
- **Backlight Lifetime** 50,000 hours (min)

Touchscreen (Optional)

- **Type** Analog Resistive
- **Resolution** Continuous
- **Light Transmission** 80%
- **Controller** USB interface
- **Power Consumption** < 5 V @ 100 mA
- **Software Driver** Supports Windows NT/98/2000/ME/XP
- **Durability (touches in a lifetime)** 35 million

Environmental Specifications

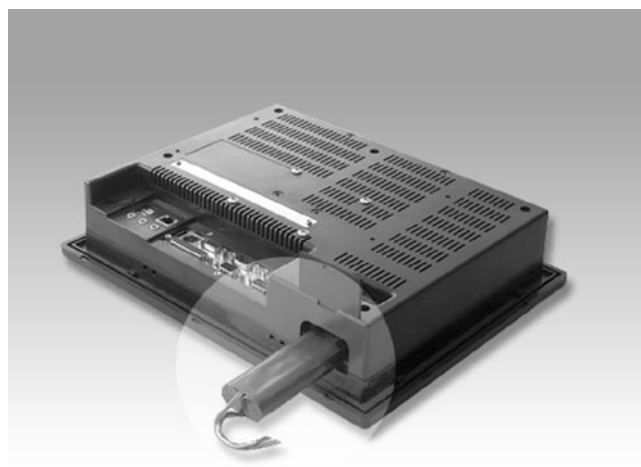
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C
- **Relative Humidity** 10 ~ 95% @ 40° C (non-condensing)
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, CE, FCC Class B
- **Safety** CB, CCC, BSMI, UL
- **Vibration** 1 G

Accessories

Part No.	Description
PPC-L127T-080-XE	Intel ULV Celeron M 1GHz processor-based Fanless Panel Computer with 12.1" TFT LCD
PPC-L127T-R80-XE	PPC-L127T-080 with Resistive Touch screen
PPC-L127T-CE-RTE	PPC-L127T with Windows CE .NET 5.0 on 128 MB CompactFlash

Part No.	Description
PPC-EXP-L127E	PCI/ISA Expansion kit for PPC-L127T
PPC-L126-BP	Rechargeable Li-ion 3S2P 11.1 V 4000 mAh battery pack
PPC-L126 WL-MT	Wall Mount Kit for PPC-L126T
PPC-L126 STAND	Desktop Stand for PPC-L126T
PPC-ARM-A01	VESA standard ARM for PPC series
PPC-L126Rack-MT	19" Rack Mounting Kit for PPC-L126

- A. Main power switch
- B. USB 2.0 x 4
- C. Ethernet jack
- D. PS/2 mouse and keyboard
- E. VGA port
- F. PCI/ISA expansion slot cover
- G. DC inlet
- H. Line-in jack
- I. Line-out jack
- J. Mic-in jack
- K. Parallel port
- L. Serial ports
- M. Battery door cover



PPC-L126T

Fanless Panel PC with 12.1" Color TFT LCD & Optional Touchscreen and VIA® C3 Eden Based Processor



Features

- 12.1" TFT SVGA LCD
- VIA® Eden 667 MHz CPU on board
- System memory up to 1 GB SDRAM
- Built-in CD-ROM drive/speakers
- One CompactFlash® Type II socket (True IDE Mode)
- One Mini PCI socket
- Optional one PCI/ISA expansion kit
- Optional Smart Battery Module with UPS functionality
- Windows® CE .NET available
- 10/100Base-T Ethernet
- Removable front bezel
- Fanless and ultra-low power consumption

Introduction

The PPC-L126T is a panel computer designed without a fan, which makes it an ideal solution for low noise operating environments and clean room applications. PPC-L126T has two power sources; an optional battery pack and an AC power supply. The battery charges when the PPC-L126T is connected to the AC power adapter. The optional rechargeable battery pack has more than 60 minutes battery life and can be used as an UPS during unexpected loss of power. The smart battery indicates the state of charge and the percentage of remaining power. PPC-L126T's ultra-low power consumption saves energy and maximizes battery life. PPC-L126T meets the VESA standard for mounting holes so that it can be used in many different kinds of installations. The front bezel can be removed to make maintenance of the LCD and touchscreen easier and quicker. The support for one plug-in/out CompactFlash disk also makes system maintenance more convenient.

Specifications

- **CPU** Onboard VIA Eden 667 MHz or above
- **Memory** 2 x 168-pin DIMM sockets up to 1 GB SDRAM
- **Combo Drive** Optional DVD/CD-RW 8D/24W/24E/24R or above
- **SSD** 1 x type II CompactFlash socket, built-in 64MB CF card in PPC-L126T-CE-RT
- **HDD** 1 x internal IDE interface, 2.5" type
- **Network (LAN)** 10/100Base-T Ethernet
- **Fully Integrated I/O and Speakers:**
 - 4 x serial ports: RS-232 x 3, RS-232/422/485 x 1
 - 1 x parallel port
 - 2 x USB ports
 - 1 x PS/2 mouse and keyboard
 - Mic-in, Line-in, Line-out
 - 1 x VGA port
 - 2 x 1.3 W speakers
- **Bus Expansion** 1 x expansion slot for PCI/ISA card
1 x MINI PCI expansion slot
- **Front Panel Protection** IP 65/NEMA 4 compliant
- **Weight** 3.25 kg (7.151 lb)
- **Dimensions (W x H x D)** 340.5 x 269.3 x 70.5 mm (13.41" x 10.6" x 2.78")

Power supply

DC/DC Converter

- **Input Voltage** 18 V_{DC} ~ 25 V_{DC}, 3.5 A max.
- **Output Voltage** +5 V @ 6 A, +3.3 V @ 6 A, +12 V @ 2 A,
-12 V @ 0.5 A, -5 V @ 0.5 A, 5 VSB @ 1 A

Power Adaptor

AC/DC Converter

- **Input Voltage** 100 V_{AC} ~ 240 V_{AC}
- **Output Voltage** 19 V @ 3.79 A

LCD Display

- **Display Type** 12.1" TFT LCD
- **Max. Resolution** 800 x 600
- **Colors** 262 K
- **Dot Size (mm)** 0.3075 x 0.3075
- **Viewing Angle** 70° (left), 70° (right), 60° (up), 50° (down)
- **Luminance** 400 cd/m²
- **Operating Temperature** 0 ~ 50° C
- **VR Control** Brightness
- **Backlight Lifetime** 50,000 hours (min)

Touchscreen (Optional)

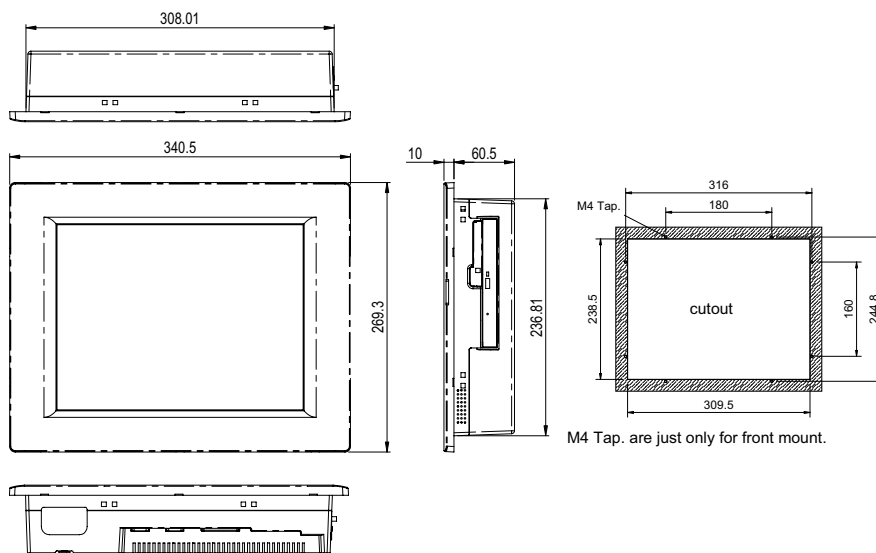
- **Type** Analog Resistive
- **Resolution** Continuous
- **Light Transmission** 80%
- **Controller** RS-232 interface (Use COM4)
- **Power Consumption** < 5 V @ 100 mA
- **Software Driver** Supports Windows NT/98/2000/ME/XP
- **Durability (touches in a lifetime)** 35 million

Environmental Specifications

- **Operating Temperature** 0 ~ 40° C (32 ~ 104° F)
- **Storage Temperature** -20 ~ 60° C
- **Relative Humidity** 10 ~ 95% @ 40° C (non-condensing)
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B
- **Safety** CB, CE, UL
- **Vibration** 1 G

Dimensions

Unit: mm



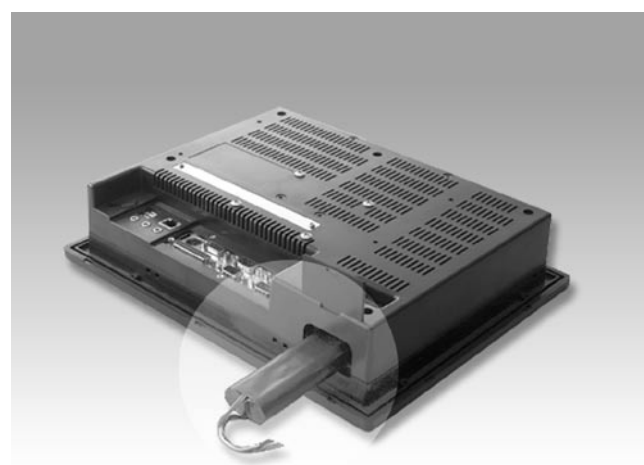
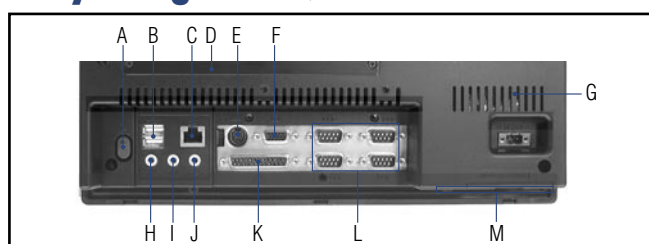
Ordering Information

Part No.	Description
PPC-L126T-071-XE	VIA Eden 667 MHz processor-based fanless panel computer with 12.1" TFT LCD
PPC-L126T-R71-XE	PPC-L126T-071 with resistive touchscreen
PPC-L126T-CE-RT1E	PPC-L126T with Windows CE .NET (English) on 128 MB CompactFlash (Slim-type CD-ROM device is available by OEM request in CE-RT1E)

Accessories

Part No.	Description
PPC-EXP-L126	PCI/ISA Expansion kit for PPC-L126T
PPC-L126-BP	Rechargeable Li-ion 3S2P 11.1 V 4000 mAh battery pack
PPC-L126 WL-MT	Wall Mount Kit for PPC-L126T
PPC-L126 STAND	Desktop Stand for PPC-L126T
PPC-ARM-A01	VESA standard ARM for PPC series
PPC-L126Rack-MT	19" Rack Mounting Kit for PPC-L126

Fully-Integrated I/O



PPC-L106T

Fanless Panel PC with 10.4" TFT LCD & Touchscreen and AMD Geode™ LX 800 (500 MHz) Processor



Features

- 10.4" TFT LCD
- AMD Geode™ LX 800 (500 MHz) CPU on board
- System memory up to 1 GB SDRAM (256 MB default built-in)
- One Compact Flash ® Type II socket (True IDE Mode)
- 10/100Base-T Ethernet or Dual LAN (Optional)
- Fanless and ultra-low power consumption
- Brightness control from 0 ~ 100%
- Optional PCI/ISA expansion kit
- Same housing as PPC-105T
- Automatic data flow control over RS-485

Introduction

PPC-L106T fanless Panel PC supports the low power AMD Geode LX 800 (500 MHz) processor. It is a powerful and compact Panel PC ideally suited for operator interface (HMI) applications. Its 10.4" 800 x 600 display, 1 GB SDRAM capacity and auto-sensing 10/100Base-T Ethernet controller makes it the ideal choice for many applications. For example, thin clients, health care and other networked environments, in addition to traditional process control industrial automation.

Specifications

- **CPU** Onboard AMD Geode LX 800 (500 MHz)
- **Memory** 1 x 200-pin SODIMM socket that accepts a 256/512/1204 MB DDR 266/333
Standard is built-in 256 MB
- **Chipset** AMD Geode CX5536
- **BIOS** 4 Mbit Flash BIOS
- **SSD** 1 x Type II Compact Flash, build in 64MB in PPC-L106T-CE-RTE
- **HDD** 1 x internal IDE interface, 2.5" drive
- **Watchdog Timer** 255 levels timer interval, setup by software
- **Bus Expansion** 1 x optional PCI/ISA expansion kit
1 x Mini PCI socket
- **Dimensions (W x H x D)** 342 x 265 x 92.4 mm (13.5" x 10.4" x 3.64")
- **Weight** 3.2 kg (7.1 lbs)

Complete I/O Ports

- **Serial Ports** 3 x RS-232, 1 x RS-232/422/485 (COM 2)
- **Parallel Port** 1 x SPP/EPP/ECP port
- **Keyboard/Mouse Port** PS/2 interface
- **VGA** Supports simultaneous CRT displays
- **Sound** Mic-in/Line-out
- **Ethernet** 10/100 Mbps, Dual LAN(Optional)
- **USB ports** 2 external USB 2.0, 2 internal USB2.0

LCD Display

- **LCD Type** 10.4" color TFT LCD
- **Resolution/Colors** 800 x 600 @ 262 K
- **Pixel Pitch (mm)** 0.264 x 0.264

- **Luminance (cd/m²)** 230
- **Viewing Angle** 60° (left), 60° (right), 35° (up), 60° (down)
- **VR Adjustment** Yes
- **Simultaneous Mode** Yes
- **Backlight MTBF** 20,000 hrs (min.)

Power Supply

AC model

- **Output Rating** 65 W
- **Input Voltage** 100 ~ 240 V_{AC} @ 50/60 Hz, autoranging
- **Output Voltage** +5 V @ 3.5 A, +12 V @ 4 A

Touchscreen (optional)

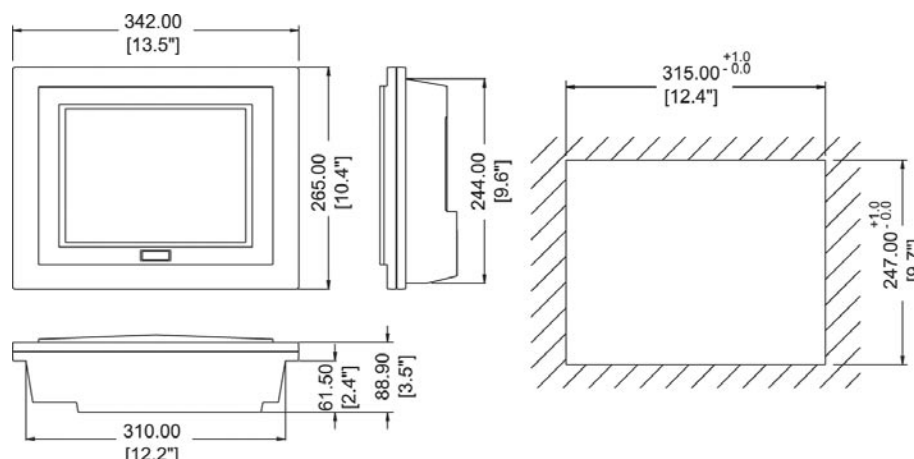
- **Type** Analog resistive, continuous resolution
- **Light Transmission** 80%
- **Controller** RS-232 interface (COM 4)
Optional USB interface
- **Software Driver** Supports Windows XP, CE
- **Lifetime** 35 million touches

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)
- **EMC** CE, FCC Class B, BSMI
- **Safety** UL, CE, 3C, BSMI
- **Front Panel Protection** IP 65/NEMA 4 compliant
- **Vibration** 1 G

Dimensions

Unit: mm (inch)



Ordering Information

- **PPC-L106T-070-XE** AMD Geode LX 800 (500 MHz) Process based Fanless Panel PC with 10.4 TFT LCD (Build in 256 MB DRAM)
- **PPC-L106T-R70-XE** PPC-L106T-070-XE with resistive touch screen
- **PPC-L106T-CE-RTE** PPC-L106T with Windows CE.NET(English) on 64MB Compact Flash
- **PPC-105 Rack MT** 19" Rack Mounting kit for PPC-103/105/L106T
- **PPC-100 Stand** Stand kit for PPC-100/102/103/105/L106T series
- **PPC-100 SWINARM** Swingarm kit for PPC-100/103/105/L106T series
- **PPC-100 WALL-MT** Wall mount kit for PPC-100/103/105/L106T series
- **PPC-EXP-L106** PCI/ISA expansion kit for PPC-L106T

Feature Details

Various applications for the PPC-L106T

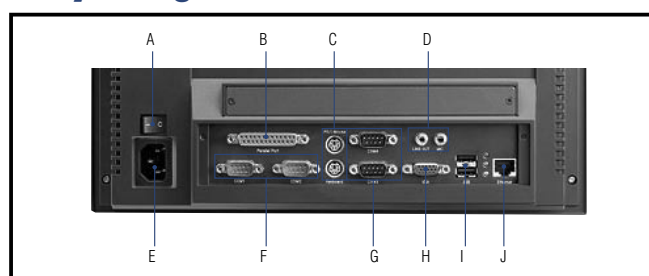
PPC-L106T's back panel I/O and integrated all-in-one single board computer make it the ideal choice to control a dedicated system in a wide variety of applications. Applications include:

- Control or data entry operator interfaces
- Information management and retrieval terminals
- Entertainment management systems
- Point of sale (POS) terminals
- Banking/office automation

Slim and compact PC terminal with LCD

The PPC-L106T is the most versatile 10.4" LCD PC available. The slim chassis fits anywhere and can be mounted in several different configurations. It can be panel mounted, wall mounted or placed upright on a desktop. Integrating the PPC-L106T into a custom system is made simple through its open-system design and comprehensive back panel I/O interface.

Fully-Integrated I/O



- | | |
|--------------------------|-------------------|
| A. Power switch | F. COM ports |
| B. Parallel port | G. COM ports |
| C. PS/2 mouse & keyboard | H. VGA port |
| D. Mic-in/Line-out | I. USB ports V2.0 |
| E. AC inlet | J. Ethernet |

PPC-L60T

Fanless Panel PC with 6.4" TFT LCD and Touchscreen and VIA® Eden™ Based Processor



Features

- 6.4" TFT VGA LCD
- VIA® Eden™ 400 MHz CPU on board
- System memory up to 512 MB SDRAM (Standard is built-in 128 MB)
- One CompactFlash® Type I/II socket (True IDE Mode)
- Microsoft® Windows® CE 4.2 and XP Embedded are available
- 10/100Base-T Ethernet
- Fanless and ultra-low power consumption
- Stainless Front cover

Introduction

PPC-L60T is a 6.4" industrial-grade Panel PC (PPC) for small interface requirements such as Human Machine Interfaces (HMI) or Multifunctional Products (MFP). PPC-L60T is highly reliable because it incorporates a low power CPU that does not need a cooling fan. The robust stainless steel enclosure makes this interface suitable for long-term solutions, and especially suitable for environments such as chemical and food processing plants. PPC-L60T comes with an embedded OS for faster application development, so driver development and customization of images do not slow down project implementation.

Specifications

- **CPU** Onboard VIA Eden 400 MHz
- **Memory** 1 x 144-pin SODIMM socket up to 512 MB SDRAM (Standard is built-in 128 MB)
- **2nd Cache Memory** 64 KB on-die
- **Chipset** VIA PN133T (Twister™)
- **BIOS** Award 256 KB Flash BIOS
- **SSD** 1 x type I/II CompactFlash socket
PPC-L60T-RCE0 comes with 1 x 64 MB built-in CompactFlash card
- **HDD** 1 x internal IDE interface, 2.5" type
- **I/O Ports**
 - 2 x Serial ports: 1 x RS232, 1 x RS232/422/485
 - 1 x USB ports (V1.1)
 - 1 x PS/2 mouse and keyboard
 - 1 x VGA port
- **Network (LAN)** 10/100Base-T Ethernet
- **Watchdog Timer** 62-level, 1 ~ 62 seconds
- **Dimensions (W x H x D)** 218 x 151 x 74.2 mm (8.58" x 5.94" x 2.92")
- **Weight** 1.8 kg (3.96 lbs)

Power Supply

DC/DC Converter

- **Input Voltage** 12 V_{DC} ~ 24 V_{DC}, 3.5 A max
- **Output Voltage** 5 V @ 5 A, 12 V @ 1 A

LCD Display

- **Display Type** 6.4" TFT LCD
- **Max. Resolution** 640 x 480
- **Colors** 262 K
- **Dot Size (mm)** 0.203 x 0.203
- **Viewing Angle** 90°
- **Luminance** 150 cd/m²
- **Operating Temperature** 0 ~ 50° C
- **Backlight Lifetime** 20,000 hrs

Touchscreen

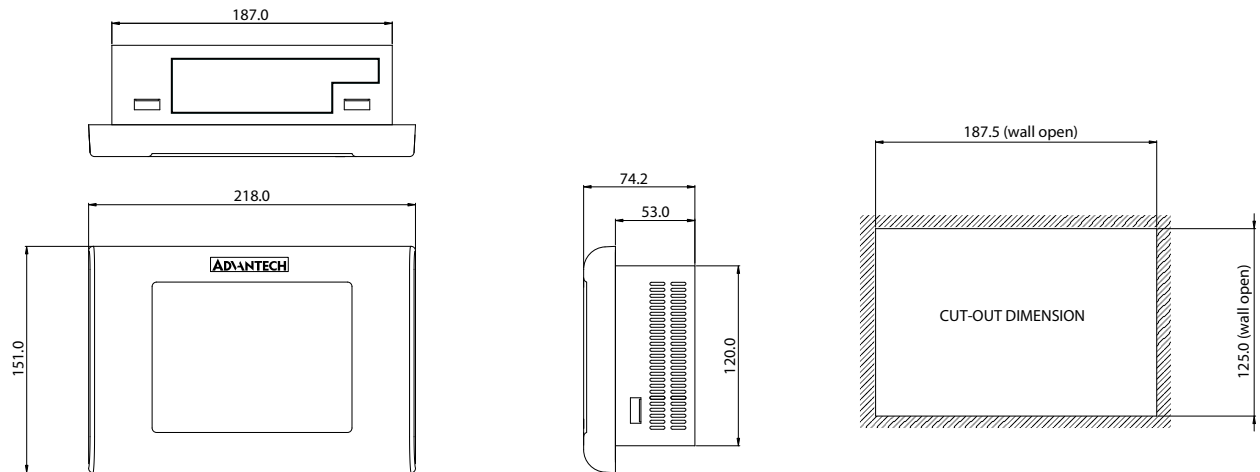
- **Type** Analog Resistive
- **Resolution** Continuous
- **Light Transmission** 80%
- **Controller** USB interface
- **Software Driver** Supports Windows 98/2000/XP
- **Durability** 10 million (Touches in a lifetime)

Environmental Specifications

- **Operating Temperature** 0 ~ 40° C
- **Relative Humidity** 10 ~ 95% @ 40° C (non-condensing)
- **Shock (Operating)** 10 G peak acceleration (11 ms duration)
- **Vibration** 1 G
- **EMC** CE, FCC Class A
- **Safety** CE, UL
- **Front Panel Protection** IP 65/NEMA compliant

Dimensions

Unit: mm



Ordering Information

Part No.	Description
PPC-L60T-R70-XE	VIA Eden 400 MHz based Fanless Panel PC with 6.4"VGA color TFT LCD, 128MB SDRAM and resistive touchscreen.
PPC-L60T-RXPE0E	PPC-L60T-R70-XE with 256 MB SDRAM and Windows XPE (English) on a 40GB HDD
PPC-L60T-RCE0E	PPC-L60T-R70-XE with 128MB SDRAM and Windows CE.NET 4.2 (English) on a 64 MB CompactFlash card

Accessories

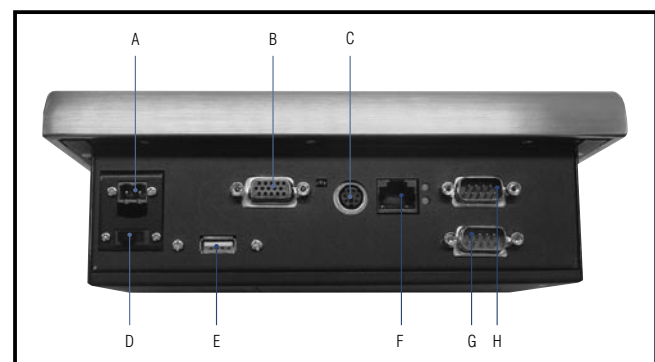
Part No.	Description
PS-DC19-L60	19 VDC power adapter module for PPC-L60
PPC-L60 WL-MT	Wall mount kit for PPC-L60 series

Embedded Software Features

PPC-L60T-RCE0: A pre-loaded 64 MB CompactFlash card with a full OS image component of Windows CE .NET 4.2 Professional Plus, including all device drivers and an extensive range of add-ons. On the utility CD, we offer an SDK for application development by using Microsoft embedded Visual C++.

PPC-L60T-RXPE0: 20 GB HD pre-loaded with a full component of Windows XP Embedded (SP1). OS is ready for customers to add peripherals and applications. Visual Studio 2003 can be used to develop applications.

Fully-integrated I/O



- A. DC 12 ~ 24 inlet
- B. VGA
- C. PS/2 KB/Mouse
- D. Power switch
- E. USB V1.1
- F. LAN
- G. RS-232/422/485
- H. RS-232