**Automation with PCs**
# ADVANTECH®

**Panel PC** | Oct. / Nov. 1998

# LINK

Fit for Integration

FROM ADVANTECH CO., LTD., TAIWAN TEL:886-2-2218-4567 FAX:886-2-2218-3875 Website:http://www.advantech.com.tw

## Product Express

# Advantech's PPC-120E, Priced Right for Industry Today

Advantech's PPC-120, Pentium MMX based panel PC with a 12.1" TFT color LCD, will be sporting a different look in November this year. The new model is built without the CD-ROM, FDD, PCMCIA features in an effort to cut costs. Second, the new chassis will be available in two color options: black or white, to meet the needs of different markets. Third, the front bezel of the black option will be completely sealed against water, dust and debris, to conform closely to the IP65 standards which are ideal for industrial applications and harsh environments.



*PPC-120 E model comes with two color options: black and white*

The current PPC-120T was originally developed for multimedia applications. It comprised of full PC functions with built-in networking capability. In addition the FDD, PCMCIA, and a 24X CD-ROM drives were built-in for extended applications. However, the added cost of these features made the PPC-120T a luxury choice for those who only needed a compact controller or man-machine interface for their system integration. By removing these three features, system integrators will be able to save their budget by 10 to 20%.

The new PPC-120 economic model will be available in two colors: black and white. The PPC product department rebuilt this model with the public environment in mind. To better weather the effects of multiple users in high traffic areas, the color black was chosen to improve the overall appearance of PPC-120 over time.

When clients speak, Advantech listens. Since it's introduction customers have had concerns that the open speaker housing on PPC-120T's front bezel would gather dust and debris. Though the original design kept most articles out of the chassis and protected the speakers and other components from damage caused by water and dust. We still felt a redesign of the chassis was warranted and now the front bezel completely sealed, this enhances the industrial specifications of the PPC-120.

When all is said and done, it should be noted that the PPC-120E is the economic choice for those looking for versatility in tough environments. Advantech is serious about providing products that our clients want and the PPC-120E is just one more example of this. Order taking will begin for the new PPC-120E in the middle of November. Please contact your sales representative for more product information.



*PPC-120 E model is built without the CD-ROM, FDD and PCMCIA functions to reduce the production cost.*

# PPC-57 on the way

Advantech's new mini-panel PC the PPC-57, an upgrade from the PPC-55, will be available in December and will replace the PPC-55 by January 1999. New hardware modifications consist of a standard DOS-based platform with a single 386-based CPU board, 5.7" quarter VGA STN/Mono LCD and 2x16-bit PC/104 expansion, enable users to expand their system. It is extremely versatile, and can be configured and customized for a variety of business applications with ease. This mini panel PC offers the best selection of features and upgrades without breaking the bank.

*The 100-pin connector for 16-bit PC/104 expansion slot*

## Key features

### 1)16-bit PC/104 feature

A new riser card with 16-bit ISA signals and the riser card is pre-installed as default, because of the 100-pin connector is bigger than the opening on back cover. It is possible to dock two PC-104 cards at the same time.

### 2)Serial port COM2 configurations

A right angle DIP switch is accessible through a small opening on the upper side of back cover to allow configuration of COM2 for RS-232, RS-422 or RS-485 operation.

### 3)CPU board/major components

- A new 100-pin PC/104 riser connector is added to replace the 60-pin connector.
- The jumpers used to configure COM2 is removed (a DIP switch is added to the I/O connector instead)
- Another built-in flat panel display connector contains enough signals to support a full VGA flat panel display.

- Supports either Fast Page Mode or EDO memory.
- Because a new version of the 6117C chipset is used and a PS/2 mouse is implemented on the 6-pin keyboard connector, a standard Advantech "Y" cable can be used to connect to the keyboard and mouse.
- Other major component in the motherboard
  —Ali 6117C CPU & chipset
  —128 KB Flash memory
  —One DRAM SIMM socket
  —C&T 65545 video chip
  —10 Base-T LAN on board
  —SMC SM37C669 super I/O chip
  —5.7" STN or Mono display
  —DC-24V power supply
  —Touchscreen controller
  —4-wire resistive touchscreen

*Compact flash adapter module for the memory card*

### 4)Compact flash adapter module

- The original SSD slot on the PPC-55 is not changed. A compact flash module is designed to plug into the existing SSD slot for replacement of SSD memory module.
- A compact flash memory card can be easily inserted or removed from the adapter module.
- The benefit for this change is that the user can upgrade the memory based upon what is available from the market.
- The compact flash memory is easy to get and also fit to all digital cameras.

### 5) Cover for PC/104 adapter cards (optional)

A new metal cover can be attached to existing back cover mounting holes to support up to two PC/104 adapter cards.

## Comparison table for main differences between PPC-55 and PPC-57

| Specifications | PPC-55 | PPC-57 |
|---|---|---|
| PPC-104 expansion slot | 8-bit | 16-bit |
| COM2 configuration | Jumper settings | One DIP switch |
| DRAM type support | FPM DRAM | FPM or EDO DRAM |
| Disk drive housing | Solid State Disk module | Compact Flash adapter |
| Power switch type and location | Knob switch on the lower right-hand side of back cover | Slide switch on the bottom of back cover |
| Expansion slot cover | Contains one PC/104 card only | Contains 2 cascaded PC/104 cards |

To support our partners building their systems to fit customer's need, we would like to announce the following information on our product phase-in and phase-out plan towards the end of 1998 and into early 1999. Please note that PPC-57 will be formally released in late November replacing the PPC-55 and order processing will begin in early December. In the meantime, we will begin taking orders for the PPC-120E by the middle of November. Furthermore, some standard configurations of PPC products also have been upgraded.

### PPC product phase-out schedule

| Product | Phase-out at | Upgrade or replacement model |
|---------|--------------|------------------------------|
| PPC-55M | Nov, 1998 | PPC-57M |
| PPC-55S | Nov, 1998 | PPC-57S |
| PPC-100M | Nov, 1998 | PPC-100S |

**\* ODM is still available upon request.**

### PPC product phase-in announcement

| Product | Description | Phase in date |
|---------|-------------|---------------|
| PPC-57M | Mini panel PC with 5.7" QVGA mono LCD display | Nov. 1998 |
| PPC-57S | Mini panel PC with 5.7" QVGA STN LCD display | Nov. 1998 |
| PPC-140-CT | 13.8" panel PC with capacitive touchscreen | Nov. 1998 |
| PPC-120-CT | 12.1" panel PC with capacitive touchscree | Nov. 1998 |
| PPC-120E | 12.1" panel PC without FDD/CD-ROM/PCMCIA | Nov. 1998 |
| PPC-60S | Mini panel PC with 6.0" VGA STN LCD display | Feb. 1999 |

**\* Please contact your dedicated sales for more details.**

### Current main component information

| Product | Current Spec. | Update Spec. |
|---------|---------------|--------------|
| PPC-120/140 | 2.1G HDD | 3.2G HDD |
| PPC-102/120/140 | Pentium MMX 200 | Pentium MMX 233 |
| PPC-120/140 | Resistive touch screen | Resistive touchscreen & Capacitive touchscree options |

# PPC-140T grabbed "The Best Hardware System Award" at Comdex Asia '98

Advantech's Singapore branch office is proud to announce that our PPC-140T, Pentium MMX-based Panel PC with 13.8" SVGA color LCD display, won the "Best Hardware System Award" at Comdex Asia '98 in Singapore in September, beating out giant international IT players like IBM, HP and Hitachi.

Now in its 4th year, Comdex Asia is universally recognized as the leading IT industry event in the region for computing and communications systems, and applications. This year, Comdex Asia highlighted five categories of computer technology: E-commerce, the Internet, digital media technology, network communications as well as a Y2K Pavilion.

Hundreds of exhibitors with thousands of new products from across the computer spectrum were on display. To recognize the best among these products, Asia Computer Weekly as the official publisher of Comdex Asia was responsible for bestowing the "Best of Comdex" awards for 1998. The products were grouped into nine categories with the award aimed to highlight the most outstanding product among each category. The nine categories include: best peripheral product, best hardware system, best Internet/Intranet product, best storage product, best networking product, best software product, best mobile computing product and best multimedia product.

Advantech's PPC-140T was victorious in the Best Hardware Contest, beating other finalists like: Hitachi's LCD Desktop 310, Hewlett-Packard's HP 3D Professional Workstation, and Giga-byte Technology's GA-6BXE. The PPC-140T's innovative design, comprehensive functionality and user-friendly features all contributed to its success in this contest. This is the first opportunity that Advantech Singapore has had to witness one of our products in the limelight at the world computer arena.

# CTCL Network Terminal

## Introduction

Chunghwa Telecom Co., Ltd. (CTCL) is the largest telecommunication carrier in Taiwan. Its mission is to develop Taiwan as an international telecommunication transit hub and provide advanced global telecommunication services to the rest of the world.

CTCL is now integrating PC networking with Internet payment systems into public phones, "Network Terminals".

## Application

"Network Terminals" are to be first installed in airports and international hotels replacing traditional phones. There they will provide users with the ability to surf the Internet, check and send email, make online purchases and perform other network applications.

More than one hundred of "Network Terminals" will be installed in Taiwan's international and domestic airports, rail and bus stations, shopping malls and other transit thoroughfares by July 1998. The core PC hardware of each terminal consists of a 13.8" LCD display (Advantech's PPC-140T), keyboard, IC card reader, and specially designed application software and Internet networking features. The combination of this PC hardware and software creates a truly multi-functional information station.

## System

The "Network terminal" is a combination of four sub-systems. The first of these to ensure the security of the terminal, CTCL has developed the "NEMA 4/12" standard transparent chassis. The chassis is made of aluminum and plastic with a lockable keyboard, specially designed mouse module, IC card reader, fan module and one 110V AC input power module.

The second sub-system is a PPC-140T without its touch screen, powered by a Pentium 200MMX CPU, 64 MB RAM, with 10/100 Base-T Ethernet, 4 COM ports, sound, and pre-installed with Window95, Netscape and PC-cillin.

The third sub-system is the "ISDN Network Termination 1"(NT-1).

NT-1 includes a "Network U Interface" and a "Terminal S/T Interface" to play the role as a connecting system to all functions provided by the sub-systems.

The final sub-system is the ISDN Terminal Adapter (TA). The TA supports CTCL ISDN exchange with two B channels, modem, and other functions to allow connectivity.

## Benefits

● Convenient communication

Using email has become a necessity in most people's professional lives. This makes it hard for them to work when they are outside the office. It is also hard for notebook users to find an Ethernet port to connect to the Internet. The Network Terminal will provide information access and communication for the public.

● Cost effective

ISDN has become very competitive with conventional phones and in some cases much cheaper. In Taiwan, for example, it costs US \$0.17 per minute for a local call by cellular phone, but only US \$0.019 per minute by ISDN. This is a saving of almost 90%.

● Information/Shopping Desk

The "Network Terminals" can also act as a versatile information/shopping terminal. With its ability to be programmed to display information from different channels or media, such as news from TV station or newspapers, economic reports from the stock exchange agency or airline information from the airport it becomes an information terminal. By coupling the Internet surfing function with the IC card reader (which allows for credit card transactions on the Internet), the Network Terminal is not only the first line information window but a online shopping terminal as well.