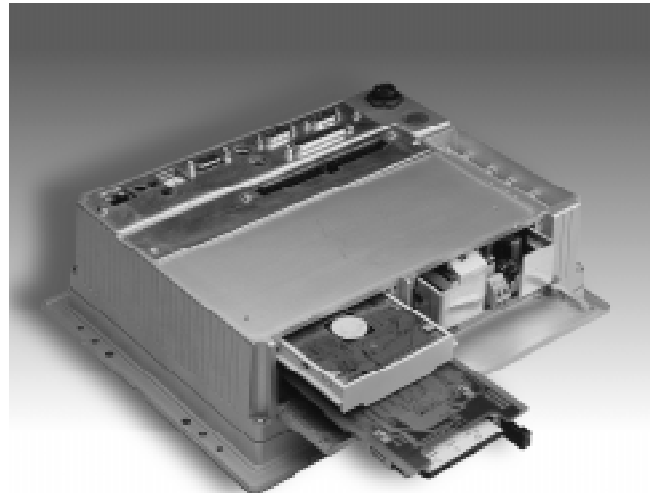


NEW PPC-A84T

Modularized Panel PC with 8.4" TFT LCD and Aluminum Die-cast Housing



Introduction

Advantech's PPC-A84T is a new generation 8.4" Panel PC with a NS GXm CPU. It is specially designed for HMI applications, such as factory, machinery automation, transportation, and health care. The PPC-A84T is designed with advanced breakthrough concepts. It is a modularized PC within an aluminum die-cast housing. When installed in an open space, no fan is required. These powerful features assist system integration, allowing for more flexibility in applications.

Aluminum Die-cast Housing

The completely sealed housing protects the system in tough, harsh environments. The die-cast housing also acts as a heat sink, to prevent the system from overheating. The front panel is compliant with IP65 standard.

No Ventilation Holes

With a heat pipe for transmitting heat to the housing, the system's MTBF has been extended. With no ventilation holes, the enclosure is completely sealed, thereby protecting the system from dust.

Modular Accessories

The power supply, HDD and PCMCIA adapter (optional) are easily removable for maintenance or exchange. The modular design allows for easier and quicker replacement of accessories.

On-board Health Monitoring

In addition, the on-board health monitoring function provides CPU voltage and system temperatures self-detection.

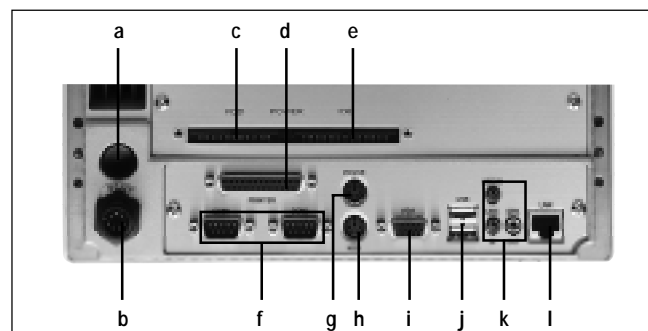
Features

- On-board health monitoring function
- High efficiency 24 V_{DC} power with isolation (12 V_{DC} optional)
- Plug-in module design, easy for field maintenance

Specifications

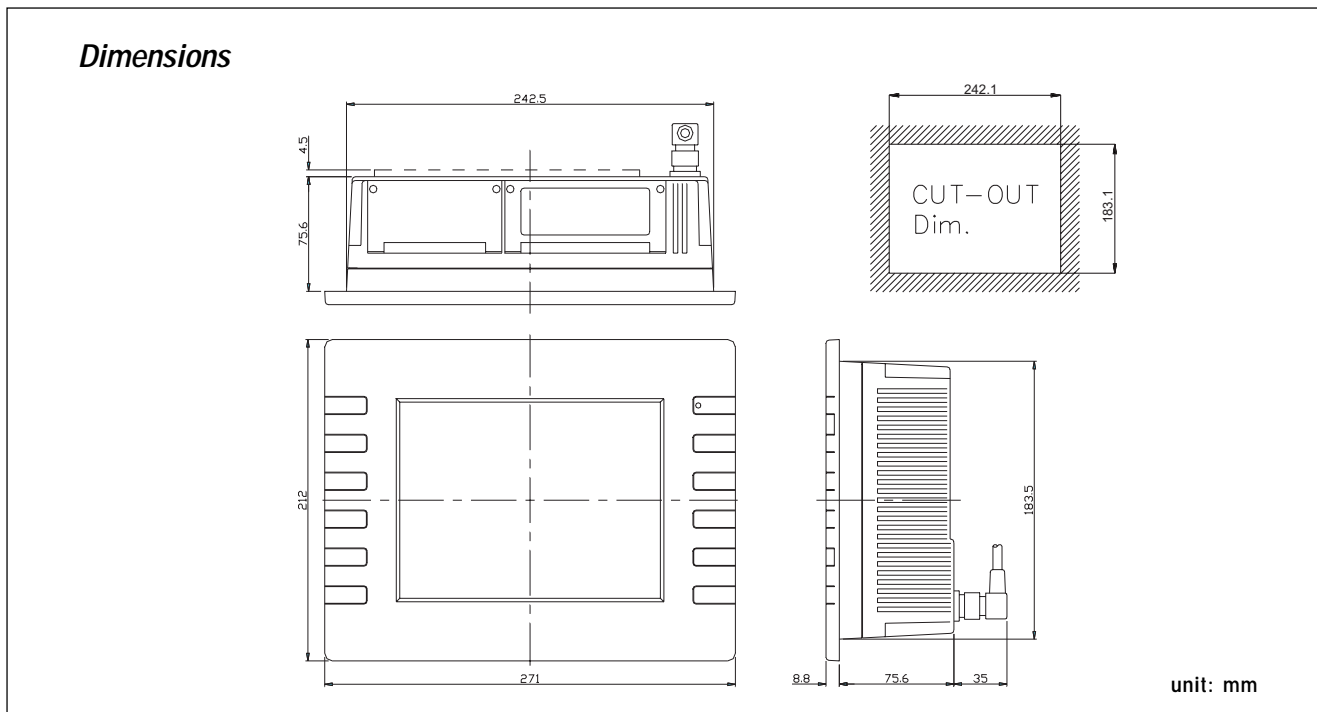
- Construction:** Aluminum die-cast housing with optional PCI/ISA extension cover
- CPU:** NS GXm 233 processor on board
- DRAM:** Supports up to 64 MB, 1 SODIMM socket
- HDD:** One plug-in module for 2.5" type HDD
- SSD:** Supports 1 CompactFlash™ socket on board
- FDD:** Supports 1 external FDD connector
- Network:** 10/100Base-T Ethernet interface (auto-sensing)
- Audio:** Mic-in/Line-in/Speaker-out
- Watchdog timer:** 62 level, IRQ or reset interrupt
- Bus expansion:** Supports 1 PCI/ISA slot (optional)
- Dimensions (W x H x D):** 271 x 212 x 75.6 mm (10.7" x 8.4" x 3.0")
- Weight:** 3.4 kg (7.5 lbs)

Fully Integrated I/O



- a. Power switch
- b. DC inlet
- c. FDD port
- d. Parallel port
- e. IDE port
- f. COM ports
- g. Mouse
- h. Keyboard
- i. VGA port
- j. USB
- k. Mic-in/Line-in/Speaker-out
- l. Ethernet port





LCD Display

- **Display type:** TFT color LCD
- **Size:** 8.4"
- **Max resolution:** 800 x 600
- **Pixel pitch:** 0.21 x 0.21 (mm)
- **Luminance:** 120 cd/m²
- **Viewing angle:** 60°
- **LCD MTBF:** 50,000 hrs.
- **Backlight MTBF:** 10,000 hrs.

Power Supply

- **Output rating:** 60 W ATX power
- **Input rating:** 24 V_{DC} (12 V optional)
- **Output voltage:** +5 V @ 6 A, +12 V @ 1 A, - 12 V @ 0.3 A
- **MTBF:** 50,000 hrs
- **EMI:** Meets FCC/CE Class B

Touchscreen

- **Type:** Resistive
- **Resolution:** 1024 x 1024
- **Light transmission:** 75%
- **Controller:** PS/2 interface
- **Power consumption:** +5V @ 200mA
- **Software driver:** Supports DOS, WINDOWS 95/98/NT 4.0
- **Lifetime:** More than 3 million touches

Environmental Specifications

- **Operating temperature:** 0 to 40° C (32° to 104° F)
- **Relative humidity:** 0 to 95% @ 40° C, non-condensing
- **Shock:** 10 G peak acceleration (11 msec duration)
- **Certification:** CE, FCC Class B
- **Front panel meet NEMA 4/ IP 65**

Ordering Information

❑ PPC-A84T-050

Panel PC with 8.4" TFT LCD display (resolution: 800 x 600), aluminum die-casting housing, and 24 V_{DC} power supply

❑ PPC-A84T-R50

PPC-A84T with resistive touchscreen

* DRAM, 2.5" HDD, CompactFlash™ memory, 24 V_{DC} power adapter and PCMCIA adapter are available as optional items.