ACP-4001

4U 14-slot with 6.4" LCD
Industrial Automation Chassis

Features

- 4U height 19" Rackmount chassis with 6.4" TFT display, slim keyboard and touch pad.
- Front accessible USB
- All-in-one IPC system provides low-cost and space saving
- Functional screen for Industrial Automation Monitoring and Controlling
- Cost effective solution for IPC server with KVM clients
- Built-in membrane key, standard IPC platform for SI/VAR equipment makers
- Telecom/Power Station portal and platform for test and measurement equipments
- Suitable for Automatic Testing Equipment and Production Line Tester
- Offers the optional SNMP-1000

Introduction

The ACP-4001 Rackmount IA Master series is a 4U height 14-slot rackmount IPC workstation that is equipped with a 6.4" LCD display, built-in keyboard, and Touch Pad drawer. It is an all-in-one cost-effective solution for traditional IPC users, and new Industrial Automation Controller.

The unit includes a versatile 14-slot passive-backplane and an optional power supply for different application needs, 10 function and cursor keys for SI/VAR application program, 2 front USB ports, a slim keyboard, touch pad drawer for easy maintenance or upgrade, a 6.4" TFT LCD screen, and dual cooling fans providing adundant cooling system. The optional SNMP-1000 is a fully integrated intelligent monitoring module that supports system fault detection. The web-enabled and web-based alarm notification system monitors the system status, including SBC status, voltages, power supply, cooling fans and temperature by web browser to minimize the system down time.

A wide variety of computing peripherals from the ADVANTECH IPC family can be integrated into the ACP-4001 to meet different application development, mission-critical environment 24 hours a day, 7-days a week.
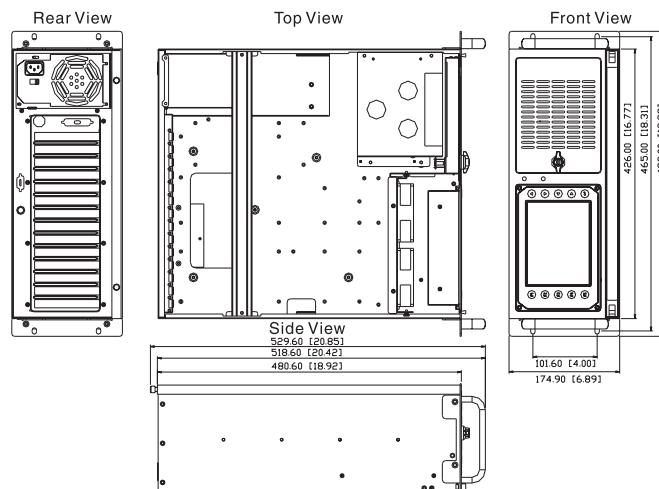
Specifications

- Disk Drive Bay: Vibration damped. Three front-accessible 5.25" drive bays.
- Cooling Fan: Dual 90x90mm easy-to-replace high CFM cooling fans.
- Controls: VR, power and reset switches.
- Display: 6.4" TFT LCD display and membrane control interface on both sides.
- Connectors: Front accessible USB; integrated 6-pin PS/2 KB/MS port to SBC at rear panel.
- Membrane Key: 5 Function Keys (F1 to F5), 5 Cursor Keys. (Up, Down, Left, Right, Enter)
- Front Panel & Door: Aluminum made with Ionized anti-scratch protection. Includes an accessible air filter.

- Keyboard drawer: A built-in 88-Keys (US) keyboard and touch pad.
- External LED indicator: Power LED for system power, HDD LED for data access.
- Dimension (WxHxD): 482mm x 173mm x 480 (19"x 6.8" x 18.9")
- Weight: About 18kg (39.6Ib)
- Paint Color: Pantone 4C 2X Black, textured
- Operating Temperature: 0° to +40°C (32° ~104°F)
- Storage Temperature: -40° to +60°C (-40° ~ +140°F)
- Relative Humidity: 10 ~ 95%@40°C, non-condensing
- Vibration: 5Hz ~ 500Hz, 1Grms (operating), 2G (non-operating)
- Shock(operating): 30G with 11 mSec duration, 1/2 sine wave
- Acoustic Noise: Less than 52 dBA sound pressure at +5° to +28°C (+41° to +82°F)
- Altitude: 0 to 3048m (0 to 10,000 ft)
- Safety: UL, cUL, CE, FCC and CCC

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Dimensions

Rear View　　Top View　　Front View

Side View

426.00 [16.77]
465.00 [18.31]
482.00 [18.98]

529.60 [20.85]
518.60 [20.42]
480.60 [18.92]

101.60 [4.00]
174.90 [6.89]

Unit: mm

Passive Backplane Options

❑ **PCA-6113P4R:** 8 ISA/ 4 PCI/ 1 CPU, single segment

❑ **PCA-6114-B:** 14 ISA, single segment

❑ **PCA-6114P4-B or C:** 9 ISA/ 4 PCI/ 1 CPU, single segment

❑ **PCA-6114P7-D:** 6 ISA/ 7 PCI/ 1 CPU, single segment

❑ **PCA-6114P10-B:** 3 ISA/ 10 PCI/ 1 CPU, single segment

❑ **PCA-6114P12:** 1 ISA/ 12 PCI/ 1 CPU, single segment

SBC and Accessory Options

❑ **PCA-6003H-00A1:** PIII (Tualatin) FSBC with VGA/LAN/HISA/LCD

❑ **PCA-6004H-00A1:** C3 800 MHz FSBC with VGA/LAN/HISA/LCD

❑ **SNMP-1000-E2A1:** SNMP/HTTP Remote System Manager for Chassis

❑ **P-FWFDDFRAXXX01:** 3.5" FDD Framework for 5.25" Bay

❑ **P-FWHDDFRAXXX01:** 3.5" HDD Holder for 5.25" Bay

Power Supply Options

Model name	Specification					
	Watt	Input	Output	Mini-load	Safety	MTBF
PS-250ATX-Z (ATX, PFC)	250W	115/230V$_{ac}$ (Selectable)	+5V@ 27A +3.3V@20A +12V@13A -12V@0.8A -5V@0.3A +5Vsb@2A	+5V@0.5A +12V@0.3A	UL,cUL,CSA, (UL60950 3rd) CE EN61000 -3-2 Class DTUV, CB	100,000 hours@25° full load
PS-300ATX-Z (ATX,PFC)	300W	115/230V$_{ac}$ (Full-range)	+5V@30A +3.3V@24A +12V@15A -12V@0.8A -5V@0.3A +5Vsb@2A	+5V@1A +12V@0.5A +3.3V@0.3A	UL,cUL,CSA, CE EN61000 -3-2 Class DTUV, Nordic, CB	100,000 hours@25° 275W load
RPS-300ATX-Z (ATX PFC)	300W	110/240V$_{ac}$ (Full-range)	+5V@ 25A +3.3V@18A +12V@16A -12V@0.5A -5V@0.5A +5VSB@2A	+5V@3A +3.3V@1A +12V@2A +5VSB@0.1A	UL/TUV/CB	150,000 hours@25° full load
PS-310-DC48 (AT)	310W	-38V$_{DC}$ ~ -58V$_{DC}$	+5V@ 25A +12V@10A -5V@1A -12V@5A	+5V@2A	UL/CSA/CE	100,000 hours@25°

Ordering Information

Model Name	With SBC	With Power Supply	With Backplane	Regulation
ACP-4001BP-00	None	None	None	None
ACP-4001BP-25Z	None	With 250W ATX PFC Power Supply	14-slot Backplane version Without Backplane	UL/cUL/CE
ACP-4001BP-30Z	None	With 300W ATX PFC Power Supply	14-slot Backplane version Without Backplane	UL/cUL/CE
ACP-4001BP-30R	None	With 300W ATX PFC Redundant Power Supply	14-slot Backplane version Without Backplane	UL/cUL/CE
ACP-4001BP-30D	None	With 310W AT DC48V Power Supply	14-slot Backplane version Without Backplane	UL/cUL/CE
ACP-4001P4-2ZC3	PCA-6003H	With 250W ATX PFC Power Supply	14-slot Backplane version With PCA-6114P4-B or C	UL/cUL/CE/ FCC/CCC
ACP-4001P4-2ZC4	PCA-6004H	With 250W ATX PFC Power Supply	14-slot Backplane version Withz PCA-6114P4-B or C	UL/cUL/CE/ FCC/CCC
ACP-4001P4-3ZC3	PCA-6003H	With 300W ATX PFC Power Supply	14-slot Backplane version With PCA-6114P4-B or C	UL/cUL/CE/ FCC/CCC
ACP-4001P4-3ZC4	PCA-6004H	With 300W ATX PFC Power Supply	14-slot Backplane version With PCA-6114P4-B or C	UL/cUL/CE/ FCC/CCC
ACP-4001P4-3RM3	PCA-6003H & SNMP-1000	With 300W ATX PFC Redundant Power Supply	14-slot Backplane version With PCA-6114P4-B or C	UL/cUL/CE/ FCC/CCC
ACP-4001P4-3RM4	PCA-6004H & SNMP-1000	With 300W ATX PFC Redundant Power Supply	14-slot Backplane version With PCA-6114P4-B or C	UL/cUL/CE/ FCC/CCC

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