

ACP-4001

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



Features

- 4U height 19" rackmount chassis with 6.4" TFT display, slim keyboard and touch pad
- Front accessible USB is friendly to plug-in versatile USB devices
- All-in-one IPC system for saving cost/space from IPC with LCD/CRT/keyboard
- Handy screen function for Industrial Automation Controller and Monitoring
- Membrane keys built-in, standard IPC platform for SI/VAR equipment makers
- Telecom/Power Station portal and platform for test & measurement equipment
- Suitable for Automatic Testing Equipment and Production Line Tester

Introduction

The ACP-4001 rackmounted IA Master series are 4U height 14-slot rackmount IPC workstations with a 6.4" LCD display and built-in slim keyboard and Touch Pad drawer. They are designed to be all-in-one and cost-effective solutions for traditional IPC users and new Industrial Automation Controllers.

The ACP-4001 Rackmount IA Master unit includes a versatile 14-slot passive-backplane and several power supply options to fit different application requirements. 10 function and cursor keys are available for SI/VAR application programs, while 2 front USB ports gives front accessible USB devices. A slim type 85 key keyboard and touch pad drawer makes input troublefree, and the 6.4" TFT LCD screen is perfect for information displays like: charts, trends, a control panel, simple programming, production data or field monitoring records. Cooling is taken care of by an easily maintained cooling fan.

A wide range of standard computing peripherals from the Advantech IPC family can be integrated into the ACP-4001 to meet different application development requirements in mission-critical environments.

Specifications

- **Disk Drive Bay** 3 x vibration damped, front-accessed 5.25" bays.
- **Cooling Fan** Dual 90mm easy-to-replace high CFM cooling fans
- **Controls** Power switch, reset switch and VR for brightness are behind the lockable door
- **Display** 6.4" TFT LCD display and membrane control interface on both sides
- **Connectors** Front access USB; integrated 6-pin PS/2 KB/MS port to SBC and 6-pin PS/2 mouse port, 6-pin PS/2 keyboard port for external connection at rear panel.
- **Membrane Key** 5 Function Keys (F1 to F5), 5 Cursor Keys (Up, Down, Left, Right, Enter)
- **Front Panel & Door** Aluminum ionized anti-scratch protection. An accessible air filter is located behind the door.
- **Keyboard Drawer** Integrated 88-Key (US) slim type keyboard w/touch pad
- **External LED Dedicator** Power LED for system power, HDD LED for data access
- **Dimension (W x H x D)** 482 x 173 x 480 mm (19" x 6.8" x 18.9")
- **Weight** 18 kg (35.2 ~ 39.6 lb)
- **Paint Color** Pantone 4C 2X black, textured
- **Operating Temperature** 0 ~ 40° C (32 ~ 104° F),
- **Storage Temperature** -40 ~ 75° C (-40 ~ 167° F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Vibration (Operating)** 5 ~ 500 Hz, 1 G rams
- **Vibration (Storage)** 5 ~ 20 Hz, 0.001 to 0.01 G2/Hz, 20 ~ 500 Hz, 0.01 G2/Hz (2.2 G rams)
- **Shock (operating)** 5 ~ 10 G with 11 mSec duration, 1/2 sine wave
- **Acoustic Noise** Less than 52 dBA sound pressure at 5 ~ 28° C (41 ~ 82° F)
- **Altitude** 0 ~ 3048 m (0 ~ 10,000 ft)
- **Safety** UL, cUL, CE, FCC and CCC

Backplane Options

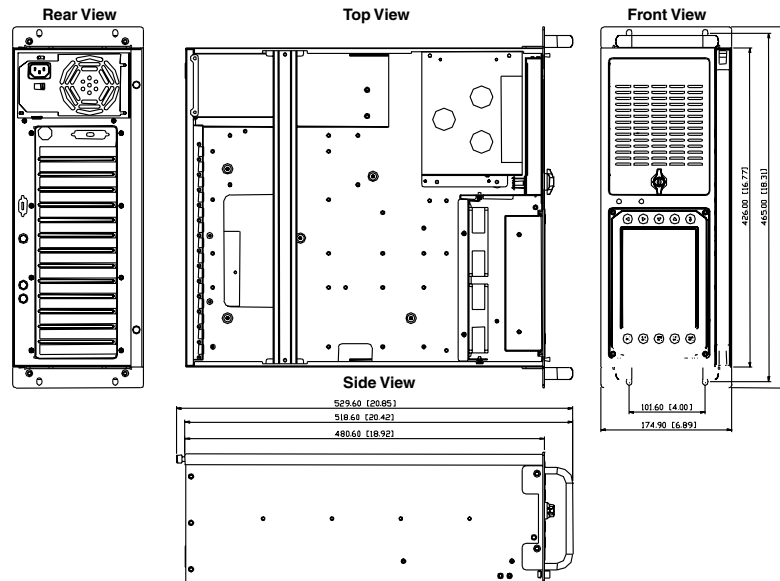
- **PCA-6113P4R** 8 ISA/4 PCI/1 CPU, single segment
- **PCA-6114-B** 14 ISA, single segment
- **PCA-6114P4-B or C** 9 ISA/4 PCI/1 CPU, single segment
- **PCA-6114P7-D** 6 ISA/7 PCI/1 CPU, single segment
- **PCA-6114P10-B** 3 ISA/10 PCI/1 CPU, single segment
- **PCA-6114P12** 1 ISA/12 PCI/1 CPU, single segment

Power Supply Options

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

Dimensions

Unit: mm



Ordering Information

- **ACP-4001BP-30Z** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC certifications and 300 W power supply.
- **ACP-4001P4-2ZC3** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC, CCC certifications, PCA-6003H SBC, 14-slot Backplane with PCA-6114P4-B or C, and 300 W power supply.
- **ACP-4001P4-2ZC4** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC, CCC certifications, PCA-6004H SBC, 14-slot Backplane with PCA-6114P4-B or C, and 250 W power supply.
- **ACP-4001P4-2ZC5** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC, CCC certifications, PCA-6359V SBC, 14-slot Backplane with PCA-6114P4-B, and 250 W power supply.
- **ACP-4001P4-3ZC3** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC, CCC certifications, PCA-6003H SBC, 14-slot Backplane with PCA-6114P4-B or C, and 300 W power supply.
- **ACP-4001P4-3ZC4** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC, CCC certifications, PCA-6004H SBC, 14-slot Backplane with PCA-6114P4-B or C, and 300 W power supply.
- **ACP-4001P4-3ZC5** 4U 14-slot Industrial Automation Chassis with 6.4" LCD, UL, cUL, CE, FCC, CCC certifications, PCA-6359V SBC, 14-slot Backplane with PCA-6114P4-B, and 300 W power supply.
- **PCA-6003H-00A1** PIII (Tualatin) FSBC with VGA/LAN/HISA/LCD
- **PCA-6004H-00A1** C3 800 MHz FSBC with VGA/LAN/HISA/LCD
- **PCA-6359V-00A1** Pentium® MMX™ FSBC with VGA/LCD
- **P-FWFDDFRAXXX01** 3.5" FDD framework for 5.25" Bay
- **P-FWHDDFRAXXX01** 3.5" HDD holder for 5.25" Bay

1	IPPC & AWS
2	TPC
3	FPM
4	ATM
5	DA&C
6	cPCI
7	ADAM-3000
8	eConnectivity
9	ICOM
10	Software
11	UNO-2000/3000
12	VBOX
13	ADAM-4000
14	ADAM-5000
15	ADAM-6000
16	ADAM-8000