ATM-4023

8-slot Industrial Automation Platform with 6.4" LCD/4U, Front-access & Wiring

Features

- Compact all-in-one solution for automated test stations
- 4U height 19" rackmount platform with 6.4" TFT LCD display
- High-brightness color TFT LCD panel: 300 nits
- Quiet operation
- Integrated with video A/D board with VGA input
- 8-slot expansion passive backplane for half-sized cards (8 PCI or 8 ISA)
- Front accessible, easy maintenance CD-ROM Drawer (Optional)
- Front accessible USB, PS/2 Keyboard and Mouse I/O interface for easy plug-in
- OSD menu control for brightness adjustment

Introduction

ATM-4023 features a revolutionary design that is ideal for automatic test stations. At only 4U, the ATM-4023 has 8 front-accessible slots, a 6.4" high-brightness TFT color LCD display, 5 function keys, 5 cursor keys, and an optional slim type CD-ROM drawer. Various mounting kits, including a rackmounting and desktop kit are designed to fit different applications. ATM-4023 is designed to be an automatic testing platform for test and measurement equipment, but can also be suitable in transportation control stations, and industrial control. The front-accessible I/O design makes production test line changes quick, also ensures easy maintenance.

Specifications

General

- **Button Controls** — Front-accessible OSD control, reset and power switch 5 function keys, 5 cursor keys
- **Certifications** — BSMI, CCC, CE, and FCC class A
- **Connectors** — 2 x front-accessible PS/2 for keyboard and mouse 2 x front-accessible USB ports
- **Cooling System** — 61.8 CFM (2 x 30.9 cooling fans) w/easy maintenance
- **Dimensions (W x H x D)** — 482 x 173 x 265 mm (18.98" x 6.8" x 10.4") (4U)
- **Disk Drive Bay** — 2 x 3.5" 1 x slim type CD-ROM drawer (optional)
- **Enclosure** — Prepainted galvanized steel
- **LED Indicators** — 1 x power, 1 x HDD
- **Mounting** — 19" rack, desktop
- **Power Input**

Model Name	Watt	Input	Output	Mini-load	Safety
P1A-6250P	250 W	100/240 V$_{AC}$ 6-3A 50/60 Hz	+5 V @ 24 A +3.3 V @ 20 A +12 V @ 12 A -12 V @ 1 A -5 V @ 0.5 A +5 Vsb @1.5 A	+5 V @ 3 A +12 V @ 2 A +3.3 V @ 1 A	UL 1950, CSA 22.2 NO/950, TUV IEC 950 FCC class B, CISPR22 CLASS B

- **Weight (Gross)** — 12 kg (26.4 lb)

CPU Card Selection

- **PCI-6872F-00A1** — PCI Socket 370 Slot PC, VGA/LCD/LVDS/LAN/CFC
- **PCI-6870F-00A2** — PCI Socket 370 815E Slot PC VGA/82562/Audio/CFC2
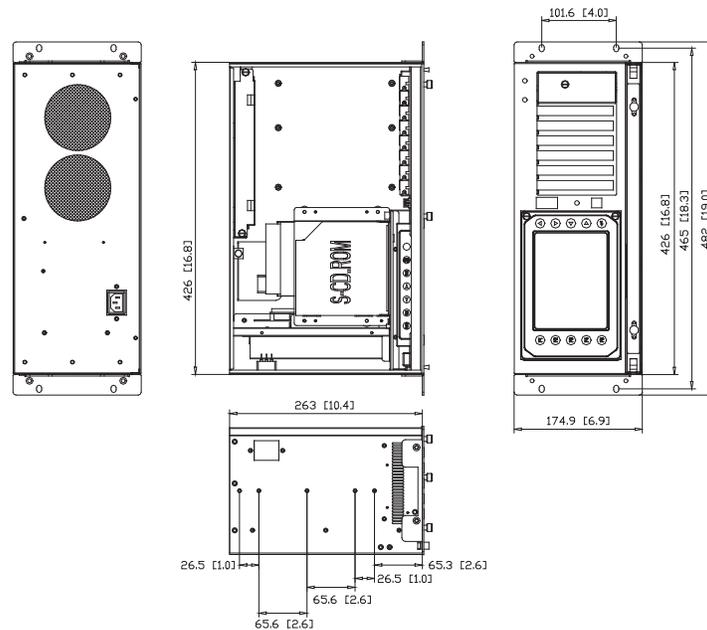- **PCA-6774-00A1** — ISA Socket 370 Slot PC with VGA/LCD/LAN/CFC

LCD Display

- **Backlight Life** — 20,000 hours
- **Display Size** — 6.4"
- **Display Type** — VGA TFT LCD
- **Luminance** — 300 cd/m²
- **Max. Colors** — 262 K
- **Max. Resolution** — 640 x 480
- **OSD Control** — Front panel
- **Viewing Angle (H/V°)** — 55/50

Environment

- **Humidity** — 10 ~ 95 % RH @ 40° C, non-condensing
- **Operating Temperature** — 0 ~ 45° C (32 ~ 113° F)
- **Storage Temperature** — -20 ~ 60° C (-4 ~ 140° F)
- **Vibration (Operating)** — 1 Grms (5 ~ 500 Hz) (random)
- **Vibration (Storage)** — 2 G (5 ~ 500 Hz) (sine)
- **Vibration (Package)** — 2.16 Grms (5 ~ 500 Hz) (random)
- **Acoustic Noise** — Less than 52 dB @ 5 ~ 28° C (41 ~ 82° F)

Dimensions

Unit: mm

101.6 [4.0]

426 [16.8]

426 [16.8]
465 [18.3]
482 [19.0]

S-CD-ROM

263 [10.4]

174.9 [6.9]

26.5 [1.0]
65.3 [2.6]
26.5 [1.0]
65.6 [2.6]
65.6 [2.6]
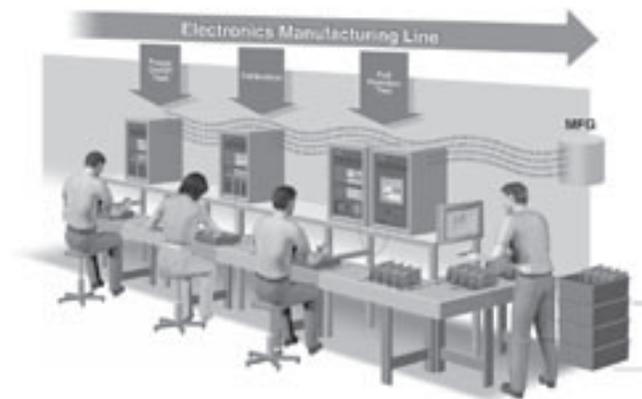
Ordering Information

- **ATM-4023H8-25Z**   8 PCI slot Industrial Automation Platform with 6.4" LCD/4U/Half Size/Front Wiring/PCA-6108P8 (rev.A1) 250 W

Accessories

- **9663402304**   Slim-type CD-ROM kit with 40-pin IDE connector
- **9684000014**   3.5" FDD with black bezel

Applications

ATM-4023 saves space and offers unparalleled convenience with its all-in-one solution for automated test stations. With front-accessible PCI and ISA slots, connections to test-station fixtures are convenient and can quickly be changed when the production line changes.

The 6.4" LCD screen offers enough space to display visual feedback to the operator for test results, and the front-accessible PS/2 port makes it easy to connect a mouse or keyboard so the operator can respond to test results. The front-accessible USB ports can be used for barcode scanners that identify the serial number of the product being tested, or other peripherals.

By connecting the test stations in an Ethernet network, the test results from several test stations can be stored on a central server for analysis by quality engineers.