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Data Sheet

August 15, 2026

ADVANTECH

Advantech PCA-6741F-6002E-T Single Board Computer

The Advantech PCA-6741F-6002E-T is a half-size PC/104-Plus single board computer built for industrial automation, embedded systems, and machine vision applications. Powered by an Intel® Atom™ E3845 quad-core processor running at 1.91 GHz with 2MB cache, this SBC delivers consistent performance in field-deployed systems across temperature extremes. The board supports up to 8 GB DDR3L SODIMM memory and features dual Intel® I211AT Gigabit LAN ports for networked operations. Typical Applications Industrial automation control systems, embedded vision platforms, network security appliances, digital signage controllers, and rugged field equipment requiring extended temperature operation. Compatibility & Integration Supports Windows 7, Windows Embedded Standard 7, Windows 8, Windows Embedded 8 Industry, and Linux operating systems. Four mounting holes enable OEM integration into panel-mount an



MODEL

Advantech PCA-6741F-6002E-T

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCA-6741F-6002E-T

LISTING

<https://aumictechlabs.com/products/pca-6741f-6002e-t-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantech PCA-6741F-6002E-T is a half-size PC/104-Plus single board computer built for industrial automation, embedded systems, and machine vision applications. Powered by an Intel®

Atom™ E3845 quad-core processor running at 1.91 GHz with 2MB cache, this SBC delivers consistent performance in field-deployed systems across temperature extremes. The board supports up to 8 GB DDR3L SODIMM memory and features dual Intel® I211AT Gigabit LAN ports for networked operations.

Technical Specifications

Processor & Memory Intel® Atom™ E3845 (Quad-core, 1.91 GHz, 2MB Cache) DDR3L SODIMM at 1067 MHz, maximum 8 GB capacity (1 socket)

AMI UEFI BIOS Video & Display Integrated Intel® HD Graphics 1 × VGA output (up to 2560 × 1600 @ 60Hz) 1 × LVDS connector (up to 1920 × 1080 @ 60Hz)

Storage & Expansion 1 × SATA II interface (300 MB/s) 1 × mSATA interface via PCIe Mini Card slot 1 × PCIe Mini Card slot with mSIM card support

Connectivity 2 × Gigabit LAN (Intel® I211AT) 2 × USB 3.0 ports, 2 × USB 2.0 ports 1 × RS-232 (DB9), 1 × RS-232/422/485 (DB9) 1 × VGA port, 2 × RJ-45 ports

Onboard I/O 8-bit programmable GPIO header (10-pin) Programmable watchdog timer (1–255 sec/min) Front panel header (power, reset, HDD LED, power LED) Line-out header, IRDA connector, buzzer

External fan connector (6-pin), **ATX power connector** (4-pin)

Key Features Dimensions: 146 mm × 101 mm (5.75" × 3.98") Low thermal footprint: 17.4W typical power consumption

Operating temperature: -20°C to 70°C (extended-grade components) **Storage temperature:** -40°C to 85°C

Operating humidity: 10–90% RH non-condensing **ATX 12V power supply required**

Typical Applications Industrial automation control systems, embedded vision platforms, network security appliances, digital signage controllers, and rugged field equipment requiring extended temperature operation.

Compatibility & Integration Supports Windows 7, Windows Embedded Standard 7, Windows 8, Windows Embedded 8 Industry, and Linux operating systems. Four mounting holes enable OEM integration into panel-mount and rack enclosure designs.

PCA6741F6002ET Characteristics / Specifications

PARAMETER	VALUE
Model	PCA-6741
Also Known As	PCA-6741F-6002E-T / PCA-6741F-0CA2
Instrument Type	ISA half-size slot CPU card
Cpu	STMicroelectronics STPC Consumer II 133 MHz
Bios	AWARD 256 KB Flash BIOS
Onboard Memory	32 MB SDRAM
Memory Expansion	one SDRAM SODIMM socket up to 64 MB total
Ide Interface	up to two IDE devices, PIO mode 3 and 4, bus mastering up to 14 MB/s
Floppy Interface	up to two FDD devices
Serial Ports	one RS-232; second RS-232/422/485 on PCA-6741F-0CA2
Parallel Port	one port supporting EPP/ECP
Infrared Port	115 kbit/s SIR IrDA 1.1
Keyboard Mouse	Mini-DIN PC/AT keyboard and PS/2 mouse
Power Management	APM
Watchdog Timer	1 to 62 s, system reset or IRQ11
Vga Chipset	Consumer II embedded graphics
Frame Buffer	1/2/4 MB
Crt Modes	1280 × 1024 at 8 bpp or 1024 × 768 at 8 bpp non-interlaced
Ethernet Chipset	RTL8139C on PCA-6741F-0CA2
Ethernet Interface	PCI 10/100 Mbps IEEE 802.3U with onboard RJ-45
Mechanical Package	ISA half-size CPU card
Manual Part	200K674110 Rev.A1
Manufacturer	Advantech
Family	PCA-6741 Series half-sized CPU card
Expansion	PC/104 and CompactFlash on series ordering matrix

PCA6741F6002ET Specifications

PARAMETER	VALUE
Key Features	STPC Consumer II 133 MHz on half-size ISA
Watchdog 1 to 62 s	Embedded CRT VGA to 1280 × 1024
Technical Specifications	Model: PCA-6741

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Notes

From Advantech PCA-6741 Series startup manual Rev.A1. PCA-6741F-6002E-T / F-0CA2 is the Ethernet and RS-232/422/485 population; confirm VGA, LAN, and serial options on the installed card.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.