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Data Sheet

August 15, 2026

ADVANTECH

Advantech PCA-6180E PCI/ISA-Bus CPU Card

The Advantech PCA-6180E is a PCI/ISA-Bus CPU Card designed for industrial computing applications. It supports a variety of processors and offers a combination of PCI and ISA expansion slots for versatile system integration.

**MODEL****Advantech PCA-6180E****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****PCA-6180E****LISTING**<https://aumictechlabs.com/products/pca-6180e-2/>

NIST-traceable cal

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30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantech PCA-6180E is a PCI/ISA-bus CPU card engineered for industrial embedded computing and control applications. Built around the Intel 815E chipset, it supports Intel Pentium III and Celeron processors up to 1.26 GHz, delivering reliable performance for unattended operation in demanding environments. The card integrates comprehensive I/O connectivity, storage interfaces, and graphics capability in a single module compatible with standard ISA or PCI/ISA passive backplanes.

Technical Specifications

Processor & Memory Socket 370 (PGA370): Intel Pentium III up to 1.26 GHz or Celeron up to 1 GHz Front Side Bus: 100 MHz or 133 MHz L2 Cache: 256 KB or 128 KB on-CPU RAM: three DIMM slots supporting up to 512 MB SDR UDIMM

Storage Interfaces IDE: two PCI Enhanced IDE controllers supporting four devices, Ultra ATA/100/66/33 with PIO Mode 4, up to 100 MB/sec transfer rate Floppy: one FDD interface for up to two devices SCSI: optional PCI Ultra 160 SCSI controller on select models, up to 160 MB/sec

Serial & Parallel Connectivity Two RS-232 serial ports (16C550 UARTs, 16-byte FIFO) at up to 115.2 Kbps One

enhanced parallel port (SPP/EPP/ECP) Four USB 1.1 ports with keyboard support Two PS/2 mini-DIN connectors (keyboard and mouse) Graphics Integrated AGP controller (Intel 815E): AGP 2X at 133 MHz, 1–11 MB shared memory, up to 32 MB VRAM maximum Bus & Form Factor PICMG 1.0 compliant PCI/ISA bus architecture Standard ISA or PCI/ISA passive backplane integrationKey Features Onboard serial ports configured as COM1 (3F8H/IRQ4) and COM2 (2F8H/IRQ3) Parallel port at LPT1 (378H/IRQ7), configurable to LPT2 or LPT3 Individual port enable/disable and address reassignment via BIOS Japanese Floppy Mode 3 supportTypical Applications Industrial automation and control systems Embedded computing in ISA backplane systems Legacy system modernization and upgrades Unattended operation requiring high availabilityCompatibility & Integration The PCA-6180E integrates directly into existing industrial infrastructure via PICMG 1.0 compliant PCI/ISA passive backplanes, requiring no active chassis components. Processor and peripheral configurations remain fully BIOS-selectable for flexible system deployment.

PCA6180E Characteristics / Specifications

PARAMETER	VALUE
Model	PCA-6180E
Instrument Type	PICMG PCI/ISA CPU card
Cpu Socket	370
Chipset	Intel 815E
Fsb	66/100/133 MHz
Pentium iii Support	up to 1.26 GHz class / 1.4 GHz on later 6180 listings
Celeron Support	up to 1 GHz / 850 MHz class
L2 Cache	on-CPU 256/128 KB class
System Ram Maximum	512 MB
Dimm Sockets	3 × 168 pin
Memory Type	PC100/PC133 SDRAM
Ecc	not supported
Bios	Award 4 Mbit FWH
Vga	chipset integrated AGP 2X 133 MHz
Serial Ports	two RS-232 16C550 16-byte FIFO to 115.2 kbps
Parallel Port	SPP/EPP/ECP DB-25
Usb Ports	4
Ide	two PCI EIDE up to four devices Ultra ATA 100/66/33
Floppy	up to two devices
Isa High Drive	64 mA
Bus	PCI 32-bit/33 MHz plus ISA PICMG
Keyboard Mouse	6-pin mini-DIN plus onboard keyboard header
Mechanical Package	full size PICMG CPU card
Ethernet Option	dual 10/100Base-T Intel 82562ET class

PCA6180E Specifications

PARAMETER	VALUE
Key Features	Intel 815E with 100/133 MHz FSB
CMOS automatic backup/restore in flash	Optional dual 10/100 Ethernet
Technical Specifications	Model: PCA-6180E

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-6180 series user's manual (PCA-6180E column) and PCA-6180 specification sheet. Installed CPU RAM and LAN/SCSI daughter options are unit-specific.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.