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Data Sheet

August 2, 2026

KONTRON

Kontron CP307 Intel Core 2 DUO 3U CompactPCI CPU Board w/ CP307-HDD Board

Kontron CP307 Intel Core 2 DUO 3U CompactPCI CPU Board w/ CP307-HDD Board The CP307 provides an industrial 3U CompactPCI single-board computer designed around an Intel Core 2 Duo processor with PICMG 2.0 compliance, typically supplied with the companion CP307-HDD storage board for onboard mass storage in embedded and telecom systems. Industrial and telecom CompactPCI system controllers; embedded computing in 3U cPCI chassis; mass-storage hosting with CP307-HDD companion board; legacy automation and communications infrastructure maintenance; rack-mounted control and data acquisition platforms. The CP307 provides an industrial 3U CompactPCI single-board computer designed around an Intel Core 2 Duo processor with PICMG 2.0 compliance, typically supplied with the companion CP307-HDD storage board for onboard mass storage in embedded and telecom systems. Industrial and telecom CompactPCI system controllers; embedded computing in 3U cPCI chassis; mass-storage hosting with CP307-HDD companion board; legacy automation and communications infrastructure maintenance; rack-mounted control and data acquisition platforms.



MODEL

Kontron CP307

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CP307

LISTING

<https://aumictechlabs.com/products/cp307-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kontron CP307 is a 3U CompactPCI CPU board built on Intel 945GM Express and ICH7R chipset architecture for industrial embedded systems requiring dual-core processing and passive thermal management. It supports Intel Core Duo, Core 2 Duo, or Celeron M processors up to 2.16 GHz with configurable 533 MHz or 667 MHz front-side bus, paired with up to 4 GB DDR2 SDRAM across dual-channel architecture. Onboard soldering of 2 GB memory and processor delivers enhanced shock and vibration resistance in field deployments.

Technical Specifications

Processor Options

Intel Core Duo: T2500 (2.00 GHz, 667 MHz FSB, 2 MB L2), L2400 (1.66 GHz, 667 MHz FSB, 2 MB L2), U2500 (1.2 GHz, 533 MHz FSB, 2 MB L2)

Intel Core 2 Duo: Up to 2.16 GHz, 533/667 MHz FSB, up to 4 MB L2 cache

Intel Celeron M: 440 (1.86 GHz, 553 MHz FSB, 1 MB L2), 423 (1.06 GHz, 533 MHz FSB, 1 MB L2)

Memory Architecture

DDR2 SDRAM: 667 MHz (Core Duo/Core 2 Duo), 533 MHz (Celeron M) 2 GB soldered onboard; up to 2 GB additional via SO-DIMM socket

Dual-channel configuration, 4 GB maximum capacity

Graphics & Display

Integrated Mobile Intel 945GM Express Graphics Media Accelerator with 2D, 3D, and video support

Dual display outputs: CRT (VGA) with 400 MHz RAMDAC and DVI interface

Storage & I/O

Up to 4x SATA interfaces (2x SATA-300 on CP307-V) 2x Gigabit Ethernet (1000Base-Tx) via PCI Express

Up to 6x USB 2.0 channels (4x on CP307-V); 2x front-panel USB 2.0 IDE, CompactFlash (Type I/II), and 2.5" SATA HDD via optional CP307-HDD module

Legacy serial, PS/2, DVI-D flat panel, and PLCC FWH Flash via CP307-HDD

Physical & Environmental

Form factor: 3U CompactPCI (4HP or 8HP)

Passive cooling with heatsink

Compatibility & Integration

Supports Windows XP, XP Embedded, Linux, and VxWorks operating systems.

Features & description

From manufacturer datasheet

Features

- 3U CompactPCI CPU board with Intel Core 2 Duo processor
- PICMG 2.0 compliant 3U CompactPCI form factor
- Companion CP307-HDD board for mass storage (included in typical listing)
- Industrial SBC class for embedded and telecom applications
- Clock speed, RAM, and I/O configuration confirmed from faceplate or BIOS

Applications

- Clock speed, RAM, and I/O configuration confirmed from faceplate or BIOS

CP307 Characteristics / Specifications

PARAMETER	VALUE
Model	CP307 (with CP307-HDD companion board)
Manufacturer	Kontron
Instrument Type	3U CompactPCI CPU Board with Storage Companion
Form Factor	3U CompactPCI (PICMG 2.0)
Processor	Intel Core 2 Duo class
Companion Board	CP307-HDD (mass storage)
Clock Speed	Confirm from faceplate or BIOS (not published in limited public tables)
System Memory	Confirm from faceplate or BIOS (not published in limited public tables)
I/O Configuration	Confirm from faceplate, BIOS, or Kontron documentation for specific build
Alias	CP307 Standard Operating Conditions Install in compatible 3U CompactPCI chassis with adequate airflow and specified backplane voltage. Mount CP307-HDD companion per Kontron assembly guidelines. Verify BIOS and driver support for target operating system before deployment.

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	
Technical Specifications	
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Instrument Type	3U CompactPCI CPU Board with Storage Companion
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Processor	Intel Core 2 Duo class
Companion Board	CP307-HDD (mass storage)
Clock Speed	Confirm from faceplate or BIOS (not

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.