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Data Sheet

August 13, 2026

KONTRON

Kontron CP308 Intel Core 2 Duo 3U CompactPCI CPU Board

Kontron CP308 3U CompactPCI Core 2 Duo CPU Board The Kontron CP308 is a 3U CompactPCI CPU with 45 nm Intel Core 2 Duo mobile processors and the GS45 chipset. CPU options scale to 2.26 GHz (compute), 1.86 GHz LV (18 W class), and 1.2 GHz ULV for minus 40 C to +85 C extended temperature. Up to 8 GB DDR3 at up to 1066 MHz, up to 17 GB/s class throughput. Front, onboard, and rear I/O (CP-RIO3-04 / 04S). Companion CP308-HDD (DVI, PS/2, USB, COM, SATA HDD, CF, USB Flash) and CP308-MEDIA (DisplayPort, audio, Mini PCIe, SATA, CF, SD/SDHC). Highest 3U cPCI dual-core performance in that generation. The Kontron CP308 is a 3U CompactPCI CPU with 45 nm Intel Core 2 Duo mobile processors and the GS45 chipset. CPU options scale to 2.26 GHz (compute), 1.86 GHz LV (18 W class), and 1.2 GHz ULV for minus 40 C to +85 C extended temperature. Up to 8 GB DDR3 at up to 1066 MHz, up to 17 GB/s class throughput. Front, onboard, and rear I/O (CP-RIO3-04 / 04S). Companion CP308-HDD (DVI, PS/2, USB, COM, SATA HDD, CF, USB Flash) and CP308-MEDIA (DisplayPort, audio, Mini PCIe, SATA, CF, SD/SDHC). Highest 3U cPCI dual-core performance in that generation. CPU: Intel Core 2 Duo 45 nm up to 2.26 GHz



MODEL

Kontron CP308

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CP308

LISTING

<https://aumictechlabs.com/products/cp308-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kontron CP308 is a 3U CompactPCI CPU board built on Intel's 45nm Core 2 Duo mobile processors and GS45 mobile chipset for industrial computing. It delivers scalable performance up to 2.26 GHz with multiple processor options: standard 2.26 GHz, extended-temperature 1.2 GHz (-40°C to +85°C), low-voltage 1.86 GHz, and ultra-low-power 1.2 GHz configurations. The board supports up to 8GB DDR3 SDRAM with memory throughput of 17 GB/s at 1066 MHz bus speed.

Technical Specifications

Processor Intel Core 2 Duo, 45nm process Scalable speeds: 2.26 GHz (standard), 1.86 GHz (LV), 1.2 GHz (extended-temp and ULV) L2 Cache: 6 MB (3 MB for ULV versions)

Chipset & Memory Intel GS45 Express Chipset and ICH9M Up to 8GB DDR3 SDRAM (two SO-DIMM slots) Memory bus speed: 1066 MHz maximum Memory throughput: 17 GB/s

Storage & Expansion 2x fixed SATA connectors; additional SATA via extension modules Optional USB NAND Flash module Compact Flash socket and SD/SDHC card slot (mezzanine) 2.5" SATA HDD/SSD support via extension modules 4x PCIe x1 or 1x PCIe x4 (via I/O extension) CompactPCI Interface PICMG 2.0 Rev. 3.0 compatible, 32-bit, 33MHz 5V and 3.3V signalling support System master and PCI peripheral modes Hot-swap capable (PICMG 2.1 R2.0 compliant) System Management 32-bit System Management Controller with IPMI firmware Integrated Trusted Platform Module (iTPM) Software-configurable watchdog: 125ms to 4096s Temperature and voltage monitoring; fan supervision via IPMB bus Front Panel Interfaces (4HP) 2x Gigabit Ethernet with Wake-On-LAN CRT VGA port 2x USB 2.0 ports Status LEDs Power & Thermal Typical consumption: 18W at 1.86 GHz LV Graphics: Integrated Intel GS45 Graphics Memory Controller Hub

Key Features Multiple processor variants for thermal and power optimization Hardware-based encryption via iTPM Flexible I/O expansion through mezzanine and extension modules Dual Gigabit Ethernet for redundant network connectivity Extended-temperature processor option supports -40°C to +85°C operation

Compatibility & Integration The CP308 integrates into standard CompactPCI backplanes via PICMG 2.0 and 2.1 specifications. The board functions as system master or peripheral, with optional rear I/O expansion and mezzanine card slots for storage and connectivity scaling.

CP308 Characteristics / Specifications

PARAMETER	VALUE
Model	CP308
Manufacturer	Kontron
Instrument Type	3U CompactPCI CPU board
Series	CP308
Alias	CP 308
Form Factor	3U CompactPCI
CPU	Intel Core 2 Duo 45 nm up to 2.26 GHz
CPU LV	1.86 GHz, 18 W class
CPU ULV E	1.2 GHz, minus 40 C to +85 C
Chipset	Intel GS45
DRAM	up to 8 GB DDR3
DRAM Speed	up to 1066 MHz
Throughput Class	up to 17 GB/s
Companion HDD	CP308-HDD DVI PS/2 USB COM SATA HDD CF USB Flash
Companion MEDIA	CP308-MEDIA DisplayPort analog/digital audio Mini PCIe SATA CF SD/SDHC
Rear IO	CP-RIO3-04 and CP-RIO3-04S
Process	45 nm
Role	3U cPCI system controller
Status	legacy high-end 3U
Graphics	GS45 class integrated (confirm on SKU)
I/O	front, onboard, rear depending on build
Extended Temp	1.2 GHz ULV version
Not CP3	CP307 is earlier Core 2 Duo 3U with CP307-HDD
Not CP30	CP3002 is Core i7 QM57
Width	4HP CPU; 8HP with HDD/MEDIA

PARAMETER	VALUE
Application Class	image, video, robotic, real-time
Confirm Clock	2.26 versus 1.86 versus 1.2 GHz on the unit
Confirm RAM	installed DDR3 size Notes Specs from Kontron CP308 product page. Confirm CPU wattage SKU, E2 temperature build, and whether HDD or MEDIA companion is fitted.

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.

performance in that generation.

Applications

Image and video processing

Robotics and real-time 3U cPCI

Extended-temperature 1.2 GHz ULV

Energy-sensitive 1.86 GHz LV

Key Features

45 nm Core 2 Duo to 2.26 GHz

GS45 DDR3 to 8 GB / 1066 MHz

E2 temperature SKU minus 40 C to +85 C

HDD and MEDIA 8HP companions

Technical Specifications

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PARAMETER	VALUE
Model	CP308
Manufacturer	Kontron
Instrument Type	3U CompactPCI CPU board

Specifications

PARAMETER	VALUE
Series	CP308
Alias	CP 308
Form Factor	3U CompactPCI

Specifications

PARAMETER	VALUE
CPU	Intel Core 2 Duo 45 nm up to 2.26 GHz
CPU LV	1.86 GHz, 18 W class
CPU ULV E2	1.2 GHz, minus 40 C to +85 C

Specifications

PARAMETER	VALUE
Chipset	Intel GS45

PARAMETER	VALUE
DRAM	up to 8 GB DDR3
DRAM Speed	up to 1066 MHz

Specifications

PARAMETER	VALUE
Throughput Class	up to 17 GB/s
Companion HDD	CP308-HDD DVI PS/2 USB COM SATA HDD CF USB Flash
Companion MEDIA	CP308-MEDIA DisplayPort analog/digital audio Mini PCIe SATA CF SD/SDHC

Specifications

PARAMETER	VALUE
Rear IO	CP-RI03-04 and CP-RI03-04S
Process	45 nm
Role	3U cPCI system controller

Specifications

PARAMETER	VALUE
Status	legacy high-end 3U
Graphics	GS45 class integrated (confirm on SKU)
I/O	front, onboard, rear depending on build

Specifications

PARAMETER	VALUE
Extended Temp	1.2 GHz ULV version
Not CP307	CP307 is earlier Core 2 Duo 3U with CP307-HDD
Not CP3002	CP3002 is Core i7 QM57

Specifications

PARAMETER	VALUE
Width	4HP CPU; 8HP with HDD/MEDIA
Application Class	image, video, robotic, real-time
Confirm Clock	2.26 versus 1.86 versus 1.2 GHz on the unit

Confirm RAM: installed DDR3 size

Notes

Specs from Kontron CP308 product page. Confirm CPU wattage SKU, E2 temperature build, and whether HDD or MEDIA companion is fitted.

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.