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Data Sheet

August 13, 2026

KONTRON

Kontron CP6012 CompactPCI CPU Board

Kontron CP6012 6U CompactPCI Core Duo / Core 2 Duo CPU Board The Kontron CP6012 is a 6U 4HP CompactPCI system/peripheral CPU with Intel Core Duo (to 2.0 GHz T2500) or Core 2 Duo (CP6012-64 to 2.16 GHz T7400). Chipset Intel E7520 plus 6300ESB. FSB 667 MHz. Up to 4 GB DDR2 400 MHz ECC SODIMM (two sockets, 6.4 GB/s). Four Gigabit Ethernet via PCI Express (2 front, 2 rear PICMG 2.16). One XMC PCIe x8 or PMC 64-bit/66 MHz. ATI ES1000 graphics VGA 1600×1200 at 85 Hz. SATA including onboard 2.5 inch HDD plus CompactFlash usable together. USB 2.0 (max 4), 1x COM, rear I/O. IPMI (PICMG 2.9), hot-swap. Power typically 34 W at 1.66 GHz, 52 W at 2.00 GHz (Core Duo); 39 W at 1.5 GHz, 56 W at 2.16 GHz (Core 2 Duo). The Kontron CP6012 is a 6U 4HP CompactPCI system/peripheral CPU with Intel Core Duo (to 2.0 GHz T2500) or Core 2 Duo (CP6012-64 to 2.16 GHz T7400). Chipset Intel E7520 plus 6300ESB. FSB 667 MHz. Up to 4 GB DDR2 400 MHz ECC SODIMM (two sockets, 6.4 GB/s). Four Gigabit Ethernet via PCI Express (2 front, 2 rear PICMG 2.16). One XMC PCIe x8 or PMC 64-bit/66 MHz. ATI ES1000 graphics VGA 1600×1200 at 85 Hz. SATA including onboard 2.5 inch HDD plus CompactFlash usable together. USB 2.0 (max 4), 1x COM, rear I/O. IPMI (PICMG 2.9), hot-swap. Power typically 34 W at 1.66 GHz, 52 W at 2.00 GHz (Core Duo); 39 W at 1.5 GHz, 56 W at 2.16 GHz (Core 2 Duo). High-availability IPMI-managed 6U syst



MODEL

Kontron CP6012

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CP6012

LISTING

<https://aumictechlabs.com/products/cp6012-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kontron CP6012 is a 3U CompactPCI CPU board built around Intel Core i7 processing for industrial and embedded real-time control, data acquisition, and high-throughput communication tasks. It combines quad-core computing at up to 2.8 GHz with dual-channel video output, dual Gigabit Ethernet, and eight USB ports - delivering the processing density and I/O breadth required in deployments.

Technical Specifications

Processor Intel Core i7 quad-core processor
Clock speed: Up to 2.8 GHz
L3 cache varies by processor variant
Memory DDR3/DDR4 SODIMM (revision-dependent) Up to 16 GB capacity
1333 MHz, 1600 MHz, or higher clock speeds
2x SODIMM sockets
Chipset Mobile Intel QM77 Express Chipset (or equivalent generation match)
Graphics Integrated Intel HD Graphics
VGA output LVDS 24-bit dual-channel output
DisplayPort (select variants)
Storage SATA III (6 Gb/s) interface 2.5" HDD/SSD support CompactFlash slot
Optional onboard eMMC or SATA DOM
Connectivity 2x Gigabit Ethernet (10/100/1000 Base-T, RJ45)
4x USB 3.0 ports 4x USB 2.0 ports 2x RS-232 (DB9) 1x RS-232/422/485 (jumper-selectable)
1x Parallel Port (EPP/ECP) GPIO header with configurable digital I/O
HD Audio interface SMBus for system monitoring Programmable watchdog timer

CompactPCI Attributes

Form factor: 3U
PCI bus: 32-bit, 33 MHz
Hot-swap capable in compliant backplanes

Key Features

Quad-core Intel Core i7 at up to 2.8 GHz delivers sustained performance for signal processing and control algorithms
Dual-channel LVDS plus VGA and DisplayPort options support multi-display
industrial HMIs
Eight USB ports (4x USB 3.0, 4x USB 2.0) enable broad device ecosystem integration
Selectable RS-232/422/485 serial interface accommodates legacy fieldbus and sensor networks
Integrated HD Audio and GPIO headers simplify audio I/O and custom logic integration
Hot-swap design permits live module replacement in production systems

Typical Applications

Real-time industrial control and process automation
Distributed data acquisition and edge computing
Military and avionics embedded processing
Telecommunications and network appliances
Test and measurement instrumentation

Compatibility & Integration

The CP6012 operates as a CPU or peripheral module in standard 3U CompactPCI backplanes running PCI 32-bit, 33 MHz. Dual Gigabit Ethernet and SMBus enable straightforward network and system management integration. Memory and storage flexibility DDR3/DDR4 selection, 2.5" SSD support, and onboard eMMC options - accommodate diverse OS and application footprints.

CP6012 Characteristics / Specifications

PARAMETER	VALUE
Model	CP6012
Manufacturer	Kontron
Instrument Type	6U CompactPCI CPU board
Series	CP6012
Alias	CP 6012; CP6012-64
Form Factor	6U CompactPCI 4HP
CPU Core Duo	Intel Core Duo up to 2.00 GHz T2500
CPU Core	Intel Core 2 Duo up to 2.16 GHz T7400 (CP6012-64)
Alt CPU	1.66 GHz LV Core Duo or 1.87 GHz Core Solo
FSB	667 MHz
Chipset	Intel E7520 and 6300ESB
DRAM	up to 4 GB DDR2 400 MHz two SODIMM
Memory Throughput	6.4 GB/s class
Ethernet	4x Gigabit, 2 front, 2 rear PICMG 2.16
Mezzanine	1x XMC PCIe x8 or 1x PMC 64 bit 66 MHz
Graphics	ATI ES1000
VGA Resolution	1600 × 1200 at 85 Hz
SATA	onboard including 2.5 inch HDD
CompactFlash	yes, with HDD
USB	max 4x USB 2.0
Serial	1x COM
IPMI	PICMG 2.9
Hot Swap	yes
Packet Switch	PICMG 2.16
Slot Role	system or peripheral

PARAMETER	VALUE
Power 1.66 GHz	max 34 W
Power 2.00 GHz	max 52 W
Power 2.16 GHz Core	max 56 W
OS Class	Linux SuSE 9.3/10.0, RHEL 4, Windows XP / XPe / Server
Status	legacy
Cooling	single slot passive cooling path
Rear IO	PICMG 2.16 rear Notes Specs from Kontron CP6012 / CP6012-64 product pages. Confirm Core Duo versus Core 2 Duo (CP6012-64), RAM, XMC versus PMC, and 2.16 Ethernet routing.

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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Model	CP6012
Manufacturer	Kontron
Instrument Type	6U CompactPCI CPU board
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PARAMETER	VALUE
Series	CP6012
Alias	CP 6012; CP6012-64
Form Factor	6U CompactPCI 4HP
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PARAMETER	VALUE
CPU Core Duo	Intel Core Duo up to 2.00 GHz T2500
CPU Core 2	Intel Core 2 Duo up to 2.16 GHz T7400 (CP6012-64)
Alt CPU	1.66 GHz LV Core Duo or 1.87 GHz Core Solo
Specifications	
PARAMETER	VALUE
FSB	667 MHz
Chipset	Intel E7520 and 6300ESB
DRAM	up to 4 GB DDR2 400 MHz two SODIMM
Specifications	
PARAMETER	VALUE
Memory Throughput	6.4 GB/s class
Ethernet	4x Gigabit, 2 front, 2 rear PICMG 2.16
Mezzanine	1x XMC PCIe x8 or 1x PMC 64 bit 66 MHz

Specifications

PARAMETER	VALUE
Graphics	ATI ES1000
VGA Resolution	1600 x 1200 at 85 Hz
SATA	onboard including 2.5 inch HDD

Specifications

PARAMETER	VALUE
CompactFlash	yes, with HDD
USB	max 4x USB 2.0
Serial	1x COM

Specifications

PARAMETER	VALUE
IPMI	PICMG 2.9
Hot Swap	yes
Packet Switch	PICMG 2.16

Specifications

PARAMETER	VALUE
Slot Role	system or peripheral
Power 1.66 GHz	max 34 W
Power 2.00 GHz	max 52 W

Specifications

PARAMETER	VALUE
Power 2.16 GHz Core2	max 56 W
OS Class	Linux SuSE 9.3/10.0, RHEL 4, Windows XP / XPe / Server
Status	legacy

Cooling: single slot passive cooling path

Rear IO: PICMG 2.16 rear

Notes

Specs from Kontron CP6012 / CP6012-64 product pages. Confirm Core Duo versus Core 2 Duo (CP6012-64), RAM, XMC versus PMC, and 2.16 Ethernet routing.

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.