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Data Sheet

August 13, 2026

KONTRON / PEP

Kontron / PEP CP605 cPCI Processor Module (2.2 GHz Processor, 1 GB Total Memory, J1-J5 Connectors)

Kontron CP605 6U CompactPCI Pentium 4 PICMG 2.16 CPU Blade The Kontron CP605 is a 6U 4HP CompactPCI system controller for Intel Pentium 4 and Mobile Pentium 4-M. Desktop P4 2.0 to 2.4 GHz, 400/533 MHz FSB, FCPGA2. Mobile P4-M 1.2 to 2.2 GHz, 400 MHz FSB, uFCPGA, 512 kB L2. Chipset Intel 845GV GMCH plus ICH4. Up to 2 GB DDR SDRAM at 266 MHz (max 1 GB soldered). Four Ethernet paths: 2x Gigabit (front or PICMG 2.16 rear) plus 1x 10/100. Five USB 2.0. One PMC 32-bit/33 MHz 5 V (3.3 V on request). CompactPCI 64-bit/33 MHz. PICMG 2.16, hot-swap, passive peripheral-slot mode. Power typically 38 W at 1.7 GHz, 43 W at 2.2 GHz. Listing configuration: 2.2 GHz, 1 GB total memory, J1-J5 connectors. The Kontron CP605 is a 6U 4HP CompactPCI system controller for Intel Pentium 4 and Mobile Pentium 4-M. Desktop P4 2.0 to 2.4 GHz, 400/533 MHz FSB, FCPGA2. Mobile P4-M 1.2 to 2.2 GHz, 400 MHz FSB, uFCPGA, 512 kB L2. Chipset Intel 845GV GMCH plus ICH4. Up to 2 GB DDR SDRAM at 266 MHz (max 1 GB soldered). Four Ethernet paths: 2x Gigabit (front or PICMG 2.16 rear) plus 1x 10/100. Five USB 2.0. One PMC 32-bit/33 MHz 5 V (3.3 V on request). CompactPCI 64-bit/33 MHz. PICMG 2.16, hot-swap, passive peripheral-slot mode. Power typically 38 W at 1.7 GHz, 43 W at 2.2 GHz. Listing configuration: 2.2 GHz, 1 GB total memory, J1-J5 connectors. Telecom PICMG 2.16 packet-switching blades

**MODEL****Kontron / PEP
CP605****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****CP605****LISTING**[https://aumictechlabs.c
om/products/cp605-2/](https://aumictechlabs.com/products/cp605-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kontron/PEP CP605 is a 4HP CompactPCI processor module built around the Mobile Intel Pentium 4 processor up to 2.2 GHz, delivering industrial-grade compute in a compact form factor. This module combines a 512 KB L2 cache, 400 MHz front-side bus, and Intel 845GV chipset with DDR 266 MHz memory (up to 1 GB soldered, expandable to 2 GB via SODIMM) to support demanding embedded and real-time applications requiring both processing power and thermal efficiency. Technical Specifications Processor: Mobile Intel Pentium 4, 2.2 GHz max, 478-pin FCPGA/ μ FCPGA package, 512 KB L2 cache, 400 MHz FSB Memory: DDR 266 MHz; up to 1 GB soldered + 1 GB SODIMM expansion (2 GB total maximum) Chipset: Intel 845GV GMCH, ICH4 Ethernet: 2x Gigabit (front or rear via PICMG 2.16), 1x Fast Ethernet 10/100Base-TX USB: 5x USB 2.0 ports Serial: Up to 4x COM RS232 Storage: CompactFlash socket; optional 2.5" hard disk or ATA flash mounting (4HP) PMC Slot: 32-bit / 33 MHz, 5V signaling (3.3V available) Power Consumption: 43 W max @ 2.2 GHz Dimensions: 233 × 160 × 20.5 mm Operating Temperature: 0°C to 60°C Storage Temperature: -25°C to 75°C (optional) Humidity: 93% relative humidity Key Features Passive cooling design with integrated 845GV 2D/3D graphics accelerator PICMG 2.0 Rev. 3.0, PICMG 2.1 R2.0 hot-swap, PICMG 2.16 R1.0 packet-switching backplane compliance Optional IPMI V1.5 with onboard Baseboard Management Controller (BMC) Supports system master or peripheral PCI passive mode operation Watchdog timer and hardware monitor functionality Front-panel connectors: VGA, COM, Ethernet, USB, LEDs, reset button Typical Applications Industrial automation, embedded telecommunications, real-time control systems, and edge computing environments requiring compact, thermally efficient processor modules with multi-protocol connectivity. Compatibility & Integration Fully compatible with CompactPCI backplanes supporting PICMG 2.0 and later specifications. Accepts standard 32-bit PMC expansion modules and integrates with optional rear I/O modules such as CP-RIO6-05 for extended interface configurations.

CP605 Characteristics / Specifications

PARAMETER	VALUE
Model	CP605
Manufacturer	Kontron / PEP
Instrument Type	6U CompactPCI CPU blade
Series	CP605
Alias	CP 605
Form Factor	6U CompactPCI 4HP
CPU Mobile	Intel Pentium 4-M up to 2.2 GHz
CPU Desktop	Intel Pentium 4 up to 2.4 GHz
L2 Cache	512 kB on die
FSB Mobile	400 MHz
FSB Desktop	400 MHz and 533 MHz
Package Mobile	uFCPGA
Package Desktop	FCPGA2
Chipset	Intel 845GV GMCH and ICH4
DRAM	up to 2 GB DDR SDRAM 266 MHz
Soldered DRAM Max	1 GB class
Ethernet	2x Gigabit (front or PICMG 2.16 rear)
Fast Ethernet	1× 10/100Base-TX
USB	5x USB 2.0
PMC	1 slot 32 bit 33 MHz 5 V (3.3 V on request)
CompactPCI	64 bit / 33 MHz
Packet Switch	PICMG 2.16
Hot Swap	yes
Slot Role	system or passive peripheral
Front 4HP	VGA, COM, 3x Ethernet, 2x USB, LEDs, Reset, PMC

PARAMETER	VALUE
Watchdog	yes
HW Monitor	yes
Power 1.7 GHz	max 38 W
Power 2.2 GHz	max 43 W
Rear IO	J1 through J5 on listing configuration
Listing CPU	2.2 GHz
Listing Memory	1 GB total
Status	legacy
Cooling	single slot passive cooling path Notes Specs from Kontron CP605 product page and CP605 Pentium 4 CompactPCI manual. Confirm CPU SKU (P4-M 2.2 GHz versus desktop 2.4 GHz), RAM, PMC, and J1-J5 population.

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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PARAMETER	VALUE
Model	CP605
Manufacturer	Kontron / PEP
Instrument Type	6U CompactPCI CPU blade
Specifications	
PARAMETER	VALUE
Series	CP605
Alias	CP 605
Form Factor	6U CompactPCI 4HP
Specifications	
PARAMETER	VALUE
CPU Mobile	Intel Pentium 4-M up to 2.2 GHz
CPU Desktop	Intel Pentium 4 up to 2.4 GHz
L2 Cache	512 kB on die
Specifications	
PARAMETER	VALUE
FSB Mobile	400 MHz
FSB Desktop	400 MHz and 533 MHz
Package Mobile	uFCPGA
Specifications	
PARAMETER	VALUE
Package Desktop	FCPGA2
Chipset	Intel 845GV GMCH and ICH4
DRAM	up to 2 GB DDR SDRAM 266 MHz

Specifications

PARAMETER	VALUE
Soldered DRAM Max	1 GB class
Ethernet	2x Gigabit (front or PICMG 2.16 rear)
Fast Ethernet	1x 10/100Base-TX

Specifications

PARAMETER	VALUE
USB	5x USB 2.0
PMC	1 slot 32 bit 33 MHz 5 V (3.3 V on request)
CompactPCI	64 bit / 33 MHz

Specifications

PARAMETER	VALUE
Packet Switch	PICMG 2.16
Hot Swap	yes
Slot Role	system or passive peripheral

Specifications

PARAMETER	VALUE
Front 4HP	VGA, COM, 3x Ethernet, 2x USB, LEDs, Reset, PMC
Watchdog	yes
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Specifications

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Power 1.7 GHz	max 38 W
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Rear IO	J1 through J5 on listing configuration

Specifications

PARAMETER	VALUE
Listing CPU	2.2 GHz
Listing Memory	1 GB total
Status	legacy

Cooling: single slot passive cooling path

Notes

Specs from Kontron CP605 product page and CP605 Pentium 4 CompactPCI manual. Confirm CPU SKU (P4-M 2.2 GHz versus desktop 2.4 GHz), RAM, PMC, and J1-J5 population.

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.