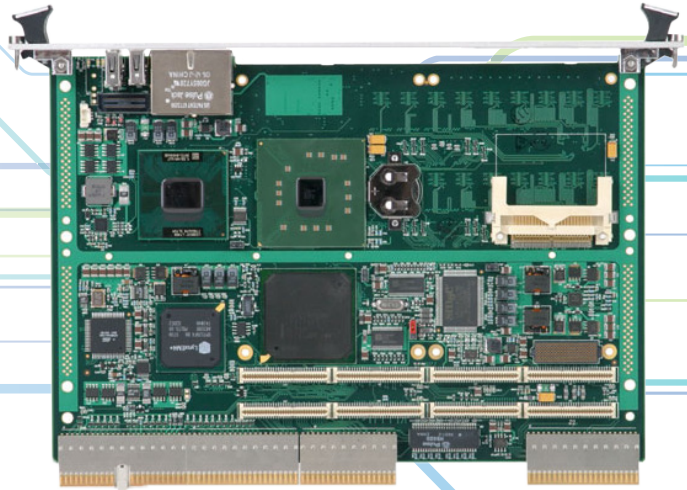


CPU-31-12 [CPD]

- Dual Core and Low Power
- Extended Temperature
- Conduction Cooling
- Wedge Locks



FEATURES

Low Power – Dual core configurations, ideal for applications requiring low power or an exceptional performance to power ratio

ECC Memory – Protects data integrity

Feature Rich – With dual PMC/XMC expansion sites and a number of on board peripherals, including video, USB and SATA

Rugged – Supporting extended temperature, wedge locks, conduction cooling and conformal coating

The CPU-31-12 is a 6U single-slot Compact PCI (PCMG 2.16 compatible) platform based on Core2 Duo CPUs: it supports low power applications thanks to the dual core L7400, and it offers a great performance to power ratio when configured with the dual core T7400.

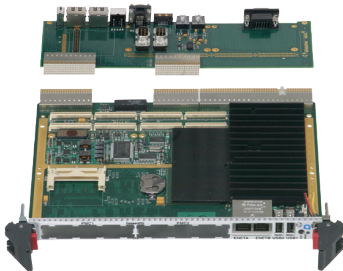
Available in standard and rugged versions, the CPU-31-12 is a flexible platform that can be employed in industrial, transportation and defense applications. Suitable for harsh environments, it supports conduction cooling, wedge locks and a full-board heat sink for high shock/vibration environments and temperature extremes.

The CPU-31-12 supports on-board bootable Compact Flash and delivers a rich set of peripherals: it supports PCI-X and PCIe expansion, USB 2.0, ATA/100, and Serial ATA (SATA). Two Gb Ethernet ports and two USB 2.0 ports are accessible from the front panel, which also allows access to the two PMC sites.

The interfaces towards the backplane include two PICMG 2.16-compliant, 10/100/1000BaseTX ports, two SATA ports, VGA video, up to four COM ports, an optional IDE interface, PS/2 mouse & keyboard, and two more USB 2.0.

Two PMC-X sites are provided for additional I/O expansion. One of the sites is XMC compatible and supports x8 PCI Express. Conventional PC I/O is accessible with industry-standard connectors on optional rear I/O modules.

System Architecture



CPU	<ul style="list-style-type: none"> Dual core L7400 1.5 GHz Core2 Duo Dual core T7400 2.16 GHz Core2 Duo
RAM	<ul style="list-style-type: none"> 2 or 4 GB DDR2-400, with ECC
CHIPSET	<ul style="list-style-type: none"> E7520 (memory controller) 6300ESB (I/O controller)
SOLID STATE MEMORY	<ul style="list-style-type: none"> On-board bootable Type II CompactFlash disk
I/O	<ul style="list-style-type: none"> 2x dual Gb Ethernet 4x USB 2.0 Ports 4x COM Keyboard, Mouse VGA 2x PATA/100 2x SATA/150 1x XMC site (x8 PCI Express) 2x PMC (PCI-X 64/66)
COMPACTPCI	<ul style="list-style-type: none"> PICMG 2.0 R3.0 Compliant Single slot Non-transparent PCI-PCI bridge Universal bridge: operates as system controller or peripheral slot module Supports Hot Swapping according to PICMG 2.1 R2.0 Connectors J3 and J5 are used for I/O expansion
WATCHDOG	<ul style="list-style-type: none"> Programmable watchdog timer for system recovery
OPERATING TEMPERATURE	<ul style="list-style-type: none"> 0°/+70°C standard version -40°/+85°C rugged version
RUGGED FEATURES	<ul style="list-style-type: none"> Extended temperature range Stiffener bar for high shock/vibration immunity (MIL-STD-810F) Convection-cooled and conduction-cooled versions Conformal coating
NET WEIGHT	<ul style="list-style-type: none"> Approximately 15 oz
REAR TRANSITION MODULE	<ul style="list-style-type: none"> Optional XPDRIO rear I/O interface board with standard connectors

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