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CPC7525

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CPC7525



Flexible GPIO signaling xxxx

This product is End-of-Life.

The Orion CPC7525 Single Board Computer (SBC) is the industry's most flexible, rugged, high-performance SBC in today's embedded marketplace. By incorporating the power of the IBM 750 FX/GX PowerPC™ and the unparalleled complement of I/O via the customer configurable "Personality Modules", we can adapt to almost any Military, Industrial or Commercial application. The CPC7525's three Gb Ethernet, two serial ports, GPIO and PMC P14 IO are all accessible through CompactPCI connector J2. The ability to automatically detect whether to function as a high-performance system controller or an intelligent peripheral card allows the user to migrate from one application to another without hardware reconfiguration. Add one of Orion's PMC7520 or PMC7525 PrPMC modules and you have a single-slot, dual-processor super computing workhorse.

Features:

- **1GHz IBM 750GX** or 600MHz IBM 750FX PowerPC
- 200MHz 60X Processor Bus (133MHz Ext. temp. models)
- Conduction or Air-cooled versions
- Extended Temperature (85C measured at the rail), Rugged design
- Up to 1GB of Double Data Rate (DDR) SDRAM with ECC
- 15W Typical power
- Personality Module for flexible J2 IO signaling options
- Three Gb Ethernet (10/100/1000) ports
- PCI-X 133MHz/64-bit PMC slot (Processor PMC compliant)
- Optional 128MB of on-board user FLASH
- Two Serial Ports
- Six GPIO
- Universal 66MHz CompactPCI bus (PCI-X)
- Marvell Discovery III System Controller

- Automatically detects whether it is a System Host or Peripheral controller
- Single slot 3U
- On-board temperature monitoring
- Non-volatile RTC
- 16KB User defined EEPROM
- U-Boot ROM monitor
- VxWorks™, LynxOS & Linux software support

Processor options:

- 1GHz IBM 750GX
- 600MHz IBM 750FX

BUSES

PowerPC Bus:

- 200MHz System Bus (commercial 750GX model)
- A32/D64 (60x)
- Address & Data Parity
- DMA/Burst Transfers

CompactPCI Bus:

- 66/33MHz, 32-bit PCI-X capable
- +5V or +3.3V IO Signalling
- System Slot Controller
- Peripheral Controller
- DMA (SDRAM & PCI)
- System Management Bus (PICMG 2.9 R1.0)
- PCISIG Revision 2.2

PMC/PCI Bus:

- 133/66/33MHz PCI-X, 64-bit PMC slot (ANSI/VITA 32-2003 PrPMC compliant)
- Front Panel PMC IO (Air-cooled models)
- Backplane PMC J2 I/O (per PICMG 2.3 R1.0)
- PCISIG Revision 2.2

Onboard Peripheral Bus:

- 133MHz synchronous 32-bit Device Bus
- DMA/Burst

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