

VPX7664

3U VPX Fourth Generation Intel Core i7 Single Board Computer

Powerful, Flexible

Fourth Generation Core i7

The Orion VPX7664 Single Board Computer (SBC) is the industry's most flexible, rugged, high-performance Multi-Core SBC in today's embedded marketplace our anti-tamper options make it ideal for military applications.

By incorporating the power of the Intel® Fourth Generation Core™ i7 and the unparalleled complement of I/O via the customer configurable "Personality Modules", it can be adapted to practically any Military, Industrial or Commercial application.

Available in 5 levels of ruggedization, from commercial temperature air-cooled (0.8" pitch) to extended temperature REDI (Vita 48.2, 0.85" pitch).

With three Open VPX 4-lane PCI express v3.0 fabric ports and an 8-lane PCI express v3.0 XMC/PMC slot, the VPX7664 design has streamlined high-speed board-to-board communication.

The VPX7664's two 10GbE Base-T ports, 2 serial ports, two USB 3.0 and two USB 2.0, 8 general purpose I/O and XMC P16 I/O are all accessible through VPX connectors P1 and P2.

Features

- Multi-Core 4th Generation Intel® Core™ i7
- QM87PCH Chipset
- 32KB L1 data and instruction caches per Core
- 256KB internal L2 Cache per Core
- Up to 8MB shared data and instruction L3 Cache
- Extended temperature & rugged REDI (Vita 48.2)
- On-board temperature monitoring
- Up to 16GB of soldered DDR3 SDRAM with ECC
- Up to 16 GB of on-board NAND Flash
- Trusted Platform Module
- One 8-lane PCIe 3.0 XMC slot (Vita 42.3)
- Three 4-lane PCIe v3.0 ports on VPX P1 (Vita 46.4)
- Two 10GbE Base-T ports
- Four Serial ports, configurable
- Eight General purpose I/O, configurable
- Two USB 3 and two USB 2.
- Two SATA 6.0 Gb/s ports
- PCIe Switch to Open VPX Backplane
- XMC front panel & P16 Rear I/O
- Various Operating System Software Support
- Digital Video & Audio ports available
- Anti-Tamper circuitry available

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