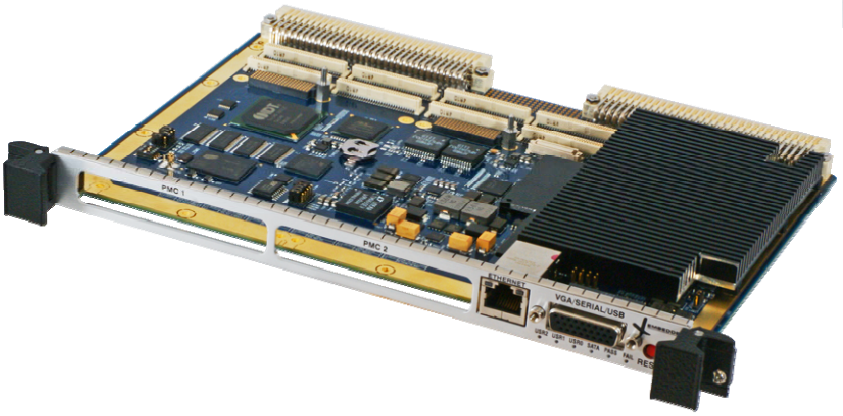
EMBEDDED

Products you can count on!

XVME-6300
i7 Intel® Core™
6U VME Processor Module

Overview

The Xembedded XVME-6300 is a high performance **6U VME** processor board based on the Intel® Core™ i7 processor, with dual displays and a front side bus of 1066MHz running DDR3 memory with ECC. The XVME-6300 is available in air and conduction cooled versions.



Features

- Intel® Core™ i7 with QM57
- 4GB or 8GB of soldered on DDR3 1066MHz with ECC
- Air cooled and conduction cooled versions
- VME: A32/A24/A16/D64/D32/D16/D8, MBLT64 and hardware byte-swapping with Tundra TSI 148
- Bootable on-board 8GB Flash.
- Two Gigabit Ethernet ports (rear I/O)
- Two Gigabit Ethernet port out the front (Air Cooled only)*
- Two SATA ports (rear I/O)
- 8 GPIO with interrupt capability (rear I/O)
- Two USB ports (rear I/O)
- Four USB ports out front panel (Air Cooled only)*
- Two RS-232 port on front panel (Air Cooled only)*
- One VGA port on front panel (Air Cooled only), switchable to the rear via jumper
- DVI-D (rear I/O)
- Two RS-232, 422 or 485 (rear I/O).
- Built-in self-test at power-on
- Available with conformal coating
- Software support for Windows 7 and Red Hat Linux
- 2 Year Warranty

*For 1 of the Gigabit Ethernet ports, 2 of the USB ports, and 1 of the RS-232 ports the optional XBRD-9050 is required.

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Processor:
- Intel I7, 1066MHz FSB 610E, 620UE, 620LE

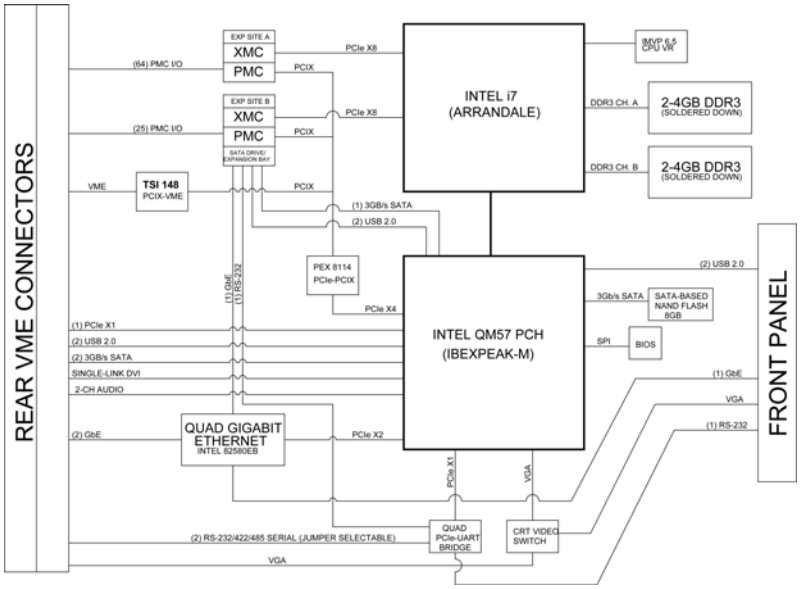
Memory:
- 4GB or 8GB DDR3 ECC 1066MHz of soldered on memory

Flash Memory
- 8GB of bootable flash memory
- Write-protection options

VMEbus Interface
- P1 and P2 connectors compatible with VME64x
- VME Master / Slave using IDT / Tundra Tsi 148 device
- A32/A24/A16/D64/D32/D16/D8 (E0)/MBLT64
- Hardware byte swapping

Dual PMC / XMC Sites
- 32/64-bit, 33/66/133MHz sites (IEEE P1386/ P1386.1)
- Front panel I/O bezel and user I/O on optional P0 rear connector.
- XMCs are PCIe x8.
- Option to replace PMC/ XMC #2 with 1.8" or 2.5" HDD / CF / SSD

Software Support: Windows 7, Red Hat Linux



Ordering Information XVME-6300-ABC

A= CPU
1 = Reserved
2 = 1.06 GHz i7-620UE
3 = 2.0 GHz i7-620LE
4 = 2.53 GHz i7-610E

B = 1 = Air Cooled, VME Handles, w/ P0
2 = Air Cooled, VME Handles, no P0
3 = Air Cooled, cPCI Handles, w/ P0
4 = Air Cooled, cPCI Handles, no P0
5 = Conduction, w/ P0
6 = Conduction, no P0

C = 4 = 4GB memory
8 = 8GB memory

Environmental

Form Factor: 6U VMEbus 9.2" (233mm), 6.3" (160mm), width .8" (20 mm)

Commercial Temperature Grade (Air Cooled)
Operating Temp: 0°C to (UE: 70°C; LE: 65°C; E: 55°C)
Storage Temp: -40°C to 125°C
Humidity: 10 to 90% non-condensing

Extended Temperature Grade (Air Cooled)
Operating Temp: -20°C to (UE: 75°C; LE: 70°C; E: 60°C)
Storage Temp: -40°C to 125°C
Humidity: 10 to 90% non-condensing

Conduction Cooled
Operating Temp: -40°C to 85°C
Storage Temp: -40°C to 125°C
Humidity: 10 to 90% non-condensing

Compliance
Complies with VMEbus Specification
VME-2gSST, 64X, 320X

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