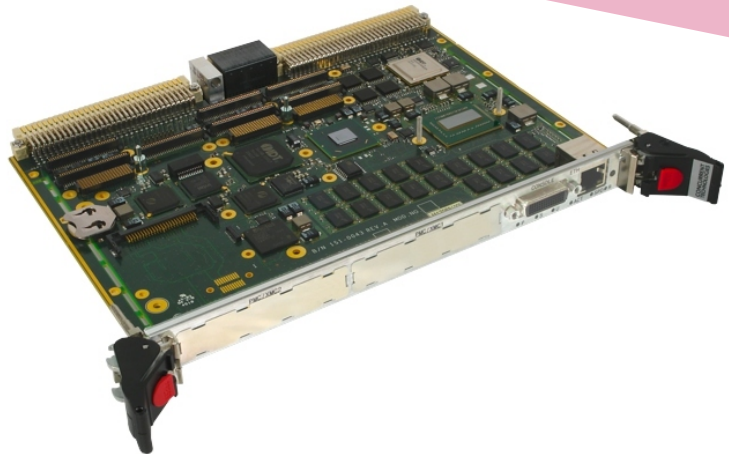


## 3<sup>rd</sup> Generation Intel® Core™ Processor Dual PMC/XMC VITA 41.4 Controller



### APPLICATIONS

The VX 91x/01x is a PC-compatible high performance VME/VXS processor board supporting the 3rd generation Intel® Core™ processor and the Mobile Intel® QM77 Express Chipset with up to 16 Gbytes of DDR3-1600 ECC DRAM. This single slot board features two PMC/XMC sites, and a variety of interfaces including an optional on-board mass storage. The board supports VITA 41.4 dual x4 PCI Express® backplane fabric interfaces and VITA 41.6 Gigabit IEEE 802.3 (1000 Base-BX) ports.

### HIGHLIGHTS

- 3<sup>rd</sup> generation Intel® Core™ processor:
  - 4-core 2.1 GHz Intel Core i7-3612QE processor
  - 2-core 2.5 GHz Intel Core i7-3555LE processor
- Up to 16 Gbytes DDR3-1600 DRAM with ECC
- 2 x SATA interfaces via P0 rear I/O and 2 x SATA interfaces via P2 rear I/O, plus optional on-board drive
- CompactFlash® site on-board
- 2 x PMC/XMC module interfaces:
  - 32/64-bit, 33/66/100 MHz PCI/PCI-X™
  - 2 x XMC module interfaces (x8 PCI Express®)
  - one site supporting Pn4 rear I/O (VITA 35)
- Dual independent displays via front panel and P2 I/O
- 2 x serial channels and 6 x USB 2.0 interfaces
- 2 x 10/100/1000Mbps Ethernet channels
- 8 Mbyte BIOS SPI Flash EPROM
- VME64/VME320 interface supporting A64/A32/A24/A16/D64/D32/D16/D8(E0), MBLT64, 2eSST and 2eVME
- Optional VXS P0 connector supporting fabric interfaces:
  - dual x4 PCI Express links (data plane, VITA 41.4) or option for x8 fabric lanes from Pn6 switched via P0
  - dual 1000 Base-BX ports, control plane (VITA 41.6)
- Optional Built-In Test (BIT) support:
  - Power-on BIT, Initiated BIT, Continuous BIT
- Extended temperature versions:
  - -25°C to +70°C (E-Series)
  - -40°C to +70°C (K-Series, includes humidity sealant)
- Ruggedized versions (RA-Series, RC-Series):
  - RA: -40°C to +75°C, conformally coated, air-cooled
  - RC: -40°C to +85°C, conformally coated, conduction-cooled (at card edge) to ANSI/VITA 30.1-2002
- Single slot
- Support for Linux®, Windows® 7, Windows® Embedded Standard 7, Windows® XP, Windows® XP Embedded, Windows® Server 2008, QNX®, VxWorks®, Solaris™ and LynxOS®
- Optional Rear Transition Module available

The VX 91x/01x is suitable for a range of applications within the defense, industrial control, telecomms, telemetry, scientific and aerospace markets. For harsher environments, ruggedized air-cooled and ruggedized conduction-cooled versions are supported. The board supports I/O plug compatibility with the popular VX 81x/09x family. To simplify integration, many industry standard operating systems are supported.

