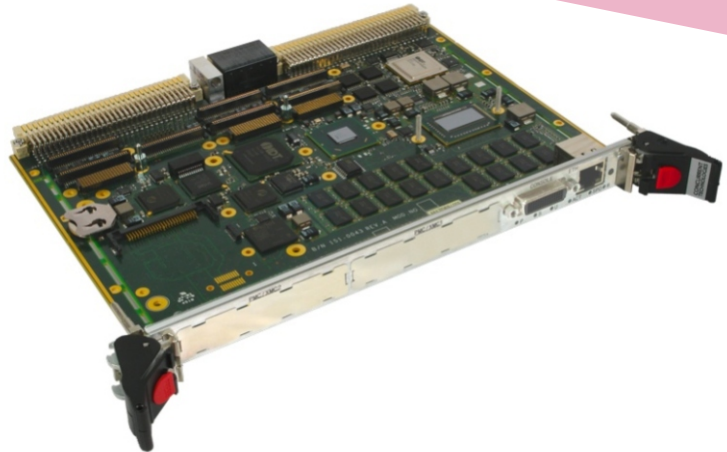


2nd Generation Intel® Core™ Processor Dual PMC/XMC VITA 41.4 Controller



APPLICATIONS

The VX 81x/09x is a PC-compatible high performance VME/VXS processor board supporting the 2nd generation Intel® Core™ processor and the Intel® Series 6 mobile class chipset all with up to 16 Gbytes of DDR3-1333 ECC SDRAM. 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. The VX 81x/09x is suitable for a range of applications within the defense, industrial control, telecomms, telemetry, scientific and aerospace markets. For harsher environments, extended temperature, ruggedized air-cooled and ruggedized conduction-cooled versions are supported. To simplify integration, many industry standard operating systems are supported.

HIGHLIGHTS

- 2nd generation Intel® Core™ processor:
 - 4-core 2.1 GHz Intel Core i7-2715QE processor
 - 2-core 1.5 GHz Intel Core i7-2610UE processor
 - 2-core 2.2 GHz Intel Core i7-2655LE processor
 - 2-core 2.5 GHz Intel Core i5-2515E processor
- Up to 16 Gbytes DDR3-1333 SDRAM 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 rear 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 (E-Series, K-Series):
 - E: -25°C to +70°C, air-cooled
 - K: -40°C to +85°C, humidity sealant, air-cooled
- 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

