

Intel® Core™ Duo Processor Single Board Computer



APPLICATIONS

The VX 405/04x is a PC-compatible high performance VXS single board computer supporting the 2.0 GHz Intel® Core™ Duo processor T2500 and the 1.66 GHz Intel Core Duo processor L2400. Both processors contain two CPU cores and shared L2 cache. The board features up to 4 Gbytes DDR2 synchronous DRAM and a variety of interfaces including an option for an on-board Hard Disk Drive, CompactFlash™ or Hitachi GST MicroDrive™. The VX 405/04x supports VITA 41.3 on VXS backplanes, or when the P0 connector is not fitted it will support dual

HIGHLIGHTS

- 2.0 GHz or 1.66 GHz Intel Core Duo processor:
 - dual-core processor
 - 667 MHz Front Side Bus
 - 64 Kbytes L1 cache
 - 2 Mbytes shared L2 cache
 - passive heatsink
- 2.16 GHz Core 2 Duo processor version available; see VX 407/04x datasheet
- Up to 4 Gbytes of 667MHz DDR2 SDRAM
- High performance SATA interface
- EIDE interfaces with support for on-board CompactFlash, MicroDrive or optional on-board disk drive (in a single slot)
- 1 x 10/100/1000Mbps front panel Ethernet interface:
 - via RJ45 connector
- Options for networking via rear I/O:
 - 2 x 10/100/1000Mbps Ethernet channels via P2 or
 - 2 x 1000Mbps baseband IEEE 802.3 backplane ports via P0 for VITA 41.3 on VXS backplanes
- 1 Mbyte of BIOS Flash EPROM
- 32/64-bit PMC module interface, operating at 33/66 MHz:
 - 1 x XMC module interface (x1 PCI Express™)
- Front panel and P2 I/O combinations available:
 - analog and digital graphics interfaces
 - keyboard and mouse interfaces
 - 2 x RS232/RS422/RS485 serial channels
 - 5 x Universal Serial Bus (USB) ports
- Floppy disk interface
- Watchdog timer and Long Duration Timer
- VME64 Interface supporting A32/A24/A16/D64/D32/D16/D8(E0), MBLT64 and with support for fast hardware byte-swapping
- Single slot
- Extended temperature version available:
 - -25°C to +70°C (E-Series)
 - -40°C to +85°C (K-Series)
 - supporting 1.66 GHz processor
- Support for Linux®, Windows® 2000, Windows® XP, Windows® XP Embedded, VxWorks® and QNX®



