

## Intel® Core™ 2 Duo Processor Single Board Computer



### APPLICATIONS

The TR 501/36x-RCS is a PC-compatible high performance 3U VPX-REDI processor board supporting the 1.86 GHz Intel® Core™ 2 processor, and the Intel® GS45 mobile class chipset with up to 8 Gbytes of DDR3-1066 SDRAM. The TR 501/36x-RCS features an XMC site and a range of I/O interfaces including two SATA300 channels, dual 1000 Base-BX, RS-232/422/485 and USB interfaces. The board provides a flexible PCI Express® (PCIe) backplane fabric interface that can be configured in several ways from 8 x1 PCIe ports to a 1 x8 PCIe port

### HIGHLIGHTS

- 3U VPX-REDI (VITA 48.0) RCS-Series processor board:
  - conduction-cooled to VITA 48.2
  - conformally coated
  - -40°C to +85°C operating temperature
  - VPX-REDI Type 1 Two Level Maintenance
  - 3U VPX-REDI 0.85 inch slot
- 3U VPX (VITA 46.0) N-Series single board computer:
  - rear plug compatible with the VPX-REDI RCS-Series
  - air-cooled
  - 0°C to +55°C operating temperature
  - use in commercial (non-rugged) applications
  - 3U VPX 0.8 inch slot
  - optional front panel console module available
  - optional rear transition module available
- I/O interfaces compatible with OpenVPX module profiles
- 1.86 GHz Intel® Core™ 2 Duo processor:
  - dual-core processor
  - 1066MHz Front Side Bus
  - 6 Mbytes last-level cache shared between cores
  - Intel® 64 Technology (64-bit computing)
- Up to 8 Gbytes DDR3-1066 SDRAM
- Built-In Test (BIT) supports:
  - Power-on BIT, Initiated BIT, Continuous BIT
- Configurable PCI Express® (PCIe) fabric interface supports:
  - 8 x1 PCIe ports, 2 x4 PCIe ports, 1 x4 + 4 x1 PCIe ports or a 1 x8 PCIe port
  - compatible with OpenVPX module profiles
  - option for non-transparent link 1
- XMC module interface with rear I/O:
  - XMC module interface (x4 PCI Express®)
  - XMC rear I/O P2w1-X24s+X8d+X12d
- 2 x 1000Mbps IEEE802.3z SERDES (1000 Base-BX) ports:
  - or option for 1 x SERDES plus 1 x Gigabit Ethernet ports
- 2 x SATA300, 1 x RS-232/422/485 and 2 x USB 2.0 interfaces
- Analog graphics interface
- Watchdog and long duration timers
- Optional N-Series front panel console module allows extra I/O:
  - 1 x USB 2.0, 1 x RS232, 1 x 10/100Mbps Ethernet, 1 x VGA
- Support for Linux®, Windows® XP, Windows® XP Embedded, Windows® Server 2003, Windows® Server 2008, QNX®, Solaris®



