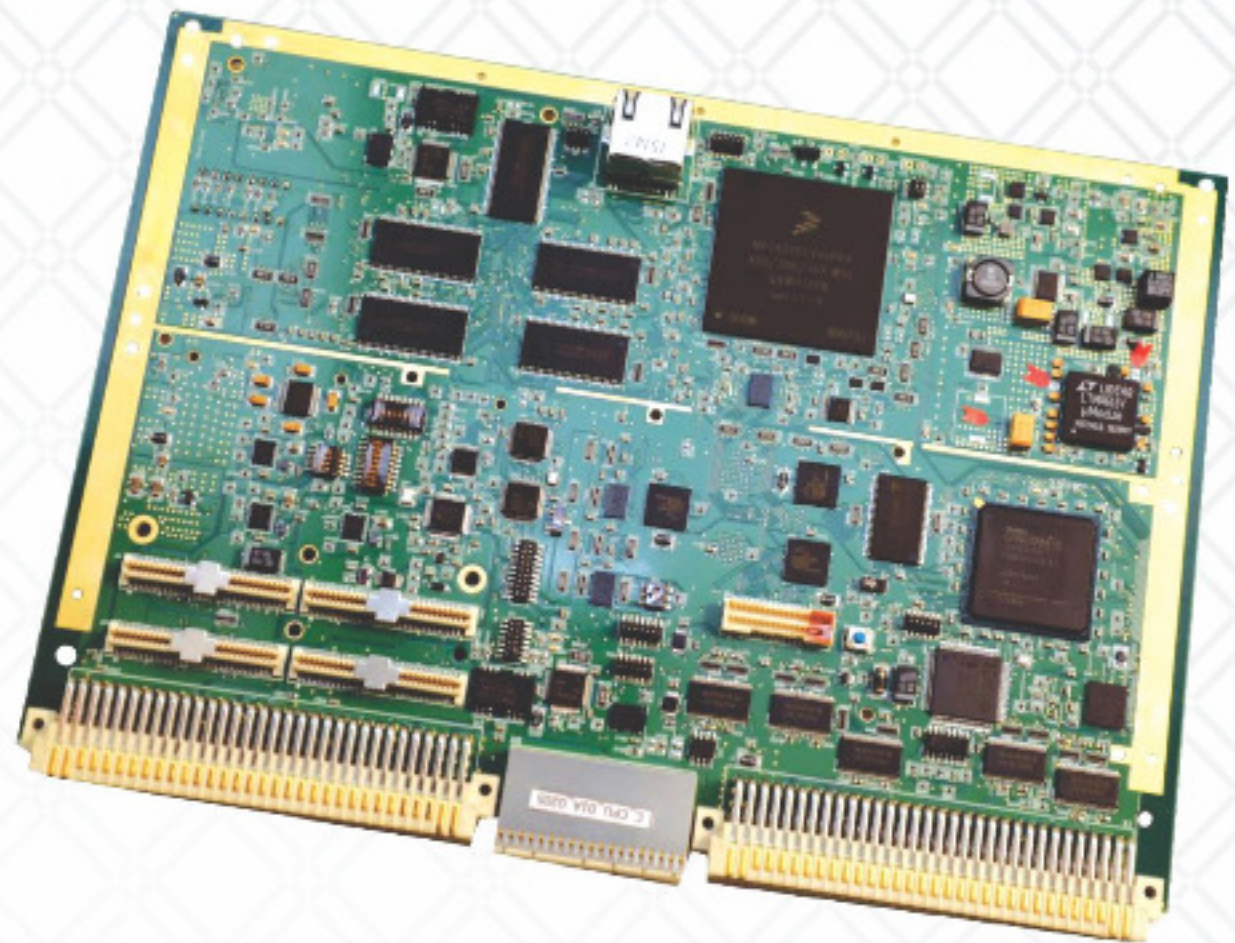
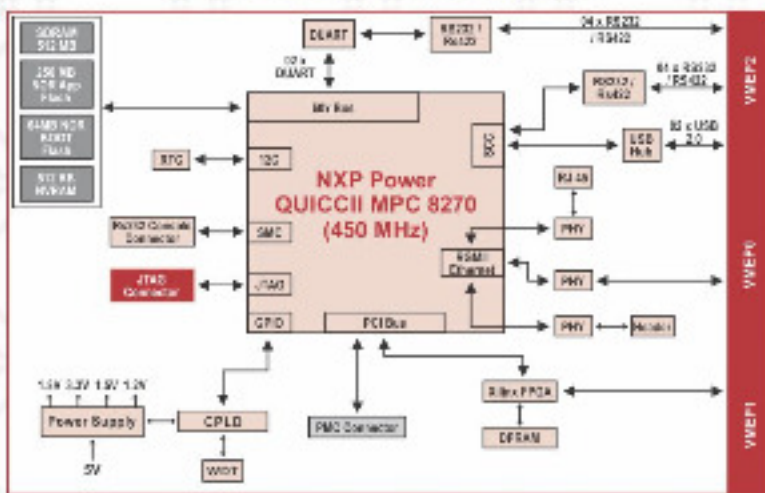


SINGLE BOARD COMPUTER



BLOCK DIAGRAM



NXP PowerPC MPC8270-based Rugged 6U VME Single Board Computer

Specifications

Integrated Host Processor

- 603e core with 16K inst and 16K data caches
- 64-bit 60x bus, 32-bit PCI/local bus
- System core microprocessor supporting frequencies of 450 MHZ

SDRAM

- Up to 512 MB SDRAM with ECC Single Bank

Flash Memory

- 512KB NOR Boot Flash
- 64MB NOR Boot Flash
- 256MB NOR Application Flash

Backplane

- Fully VME64 Host/slave capable with 2eSST support

Mezzanine Slots

- One PMC Slot for PCI 33 MHZ

Gigabit Ethernet

- 3x 10/100 BASE-T Ethernet
- 2x routed to front panel; 1x routed to backplane

Rear I/O

- 8x RS-232/RS422 UART ports
- 2x USB 2.0

NVRAM / Real-Time Clock / Watchdog

- 512 kB non-volatile MRAM
- Real-time clock and Watchdog timer

Temperature Sensors

- On-board ambient temperature and processor core temperature sensors

Power Requirements

- Operates from +5V

Features

- 6U VME single board computer
- NXP PowerArchitecture™
- MPC8270 (603e core)
- Onboard Xilinx 6 Series high-end FPGA for ASICs design
- Xilinx CPLD for power sequencing and reset management
- High-speed 3.3V 16K x 16 dual-port SRAM
- SDRAM with ECC (up to 512MB)
- 512KB + 64MB + 256MB NOR Flash
- 512 KB non-volatile MRAM
- Host/slave, VME64-compliant + 2eSST
- Support 1x independent PMC sites
- 3x 10/100 BASE-T Ethernet
- 8x RS232/RS422 ports
- 2x USB 2.0

Optional Accessories

- 6U Standard backplane
- Temperature management
- Wedge Locks

Standards

- MIL-STD-454G
- ANSI/VITA/1994 VME64
- MIL-STD-801D
- MIL-STD-461B

A 15 - Sheikh Zayed Bin Sultan Road (G.T. Road), Sector - H, DHA Phase - II, Islamabad, Pakistan.

T +92-51-7080200, +92-51-8430644 F +92-51-8430643

E info@teresol.com W www.teresol.com