

Features

- PowerQUICC III® MPC8560
- VMEbus interface 32-bit
- DDRAM on socket
- 16 MByte FLASH
- 1 MByte SRAM
- 2 x Gigabit Ethernet ports
- 1 x Fast Ethernet port
- 4 x multi-protocol serial ports

- One 32/64-bit, 33/66 MHz PMC slot

- Dual S-ATA hard disk drive
- RTC battery backed up
- CompactFlash



VSBX-6560 VME PowerQUICC III Single Board Computer is based on the MPC8560 processor. This processor is rated at 1850 DMIPS @ 833 MHz and uses DDRAM @333MHz.

High reliability together with high performance is designed in with the highly integrated MPC8560, with Dual Data Rate (DDR).

One of the key features of this device is the availability of a Quad Integrated Communications Controller (QUICC). It provides a dedicated module containing a RISC CPU and DMA channels for efficiently handling a wide range of standard or proprietary communications protocols.

VME interface

The VSBX-6560 board includes a 32-bit VME interface (rev C) :

- Master : A32/A24/A16/D32/D16/D8, RMW
- Requester : RWD, ROR, FAIR, programmable request level
- Slave : A24/A16/D32/D16/D8, RMW
- Arbiter : SGL, PRI, RRS, prog timeout
- Handler : D8(O), IH(1-7)
- Interrupter : D8(O), ROAK, I(1-7)
- Bus Timer : BTO(16 to 112)
- Mailbox functionality
- 1 MByte - SRAM shared
- DMA channel¹

Storage features

The VSBX-6560 board provides two media storage possibilities :

- A dual S-ATA hard disk drive. ²
- A CompactFlash extension.

Network and serial communication links

The VSBX-6560 offers a variety of on-board I/O:

- Two integrated Gigabit Ethernet ports available on the front panel.
- One integrated Fast Ethernet port (available on the front panel)
- One RS-232 console is available for user general purpose operations.
- Four RS-232 or RS422/485/V.35 serial ports available on the front panel.

Flexible I/O

The board also contains one 32/64-bit, 33/66MHz PMC (PCI Mezzanine Card) site. This site can be used for system I/O, supporting industry-standard PMC cards as interfaces to a wide variety of devices

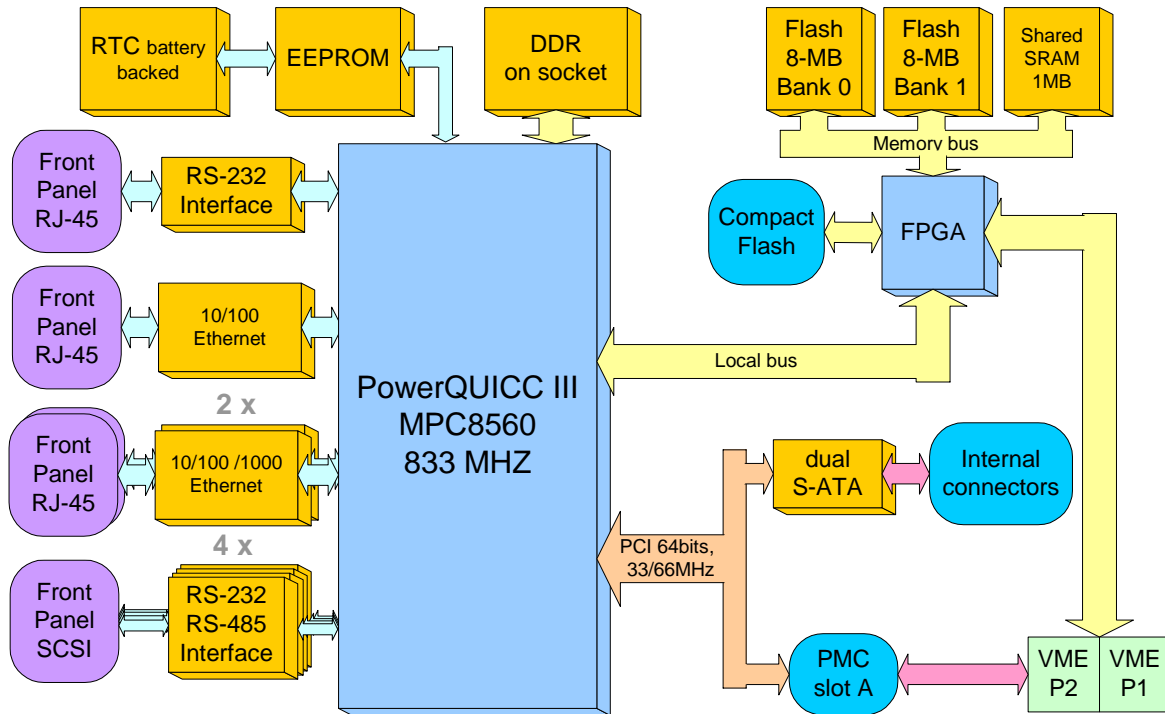
Software

Developers can take advantage of the VSBX-6560's power and performance when running major real-time operating systems (RTOS) or when deploying applications based on the low-cost, open-source Linux™ operating system. RTOS supported by the VSBX-6560 include VxWorks® and others on request.

Note 1 : The VME DMA channel is a functionality developed by Actis Computer. It allows data transfer between the shared SRAM and an address on the VME bus.

Note 2 : Not available in industrial temperature.





Features

- Motorola PowerQUICC III[®] MPC8560
- 1850 DMIPS @ 833 MHz
- DDRAM on socket
- Up to 32 MByte FLASH
- Up to 2MByte shared SRAM

Communication

- Two Gigabit Ethernet ports
- One Fast Ethernet port
- One RS-232 console port
- Four high-speed serial port supporting RS-232/422/485 mode

Storage

- CompactFlash
- Dual S-ATA hard disk interface (S-ATA 1.0)

Peripherals

- Real-time clock battery backed up
- I2C memory

JTAG port

One internal connector for direct access to the processor with third party tool.

VME interface

- Master : A32/A24/A16/D32/D16/D8, RMW
- Requester : RWD, ROR, FAIR, programmable request level
- Slave : A24/A16/D32/D16/D8, RMW
- Arbiter : SGL, PRI, RRS, prog timeout
- Handler : D8(O), IH(1-7)
- Interrupter: D8(O), ROAK, I(1-7)
- Bus Timer : BTO(16 to 112)
- Mailbox functionality
- One DMA channel¹

IEEE1386.1 slot

- One 32/64-bit PMC slot
- Up to 66 MHz compatible

Environmental

Operating

- Commercial : 0 to +55 °C
- Industrial : -25°C to +71°C

Non-operating : -40°C to 85 °C

Airflow requirement	10 CFM
Relative Humidity	0 to 90 % (non-cond.)
Altitude	0 to 10'000 ft

Environmental

Dimensions	6.3 in x 9.2 in
Power	TBD
Vibration	0.5G RMS 20-2000 Hz random
Shock	20 G, 11 ms, ½ sine

ACTIS Computer SA

19 ch. Du Champ-des-Filees
CH - 1228 Plan-Les-Ouates, Switzerland
Tel: +41 (22) 706 1830
Fax: +41 (22) 794 4391

ACTIS Computer Inc

6202 South Maple Ave, Suite 120
Tempe, Arizona 85283, USA
Tel: (480) 838 1799
Fax: (480) 838 4477

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