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Find the *ACTIS Computer VSBC-6862* at our website: *Click HERE*

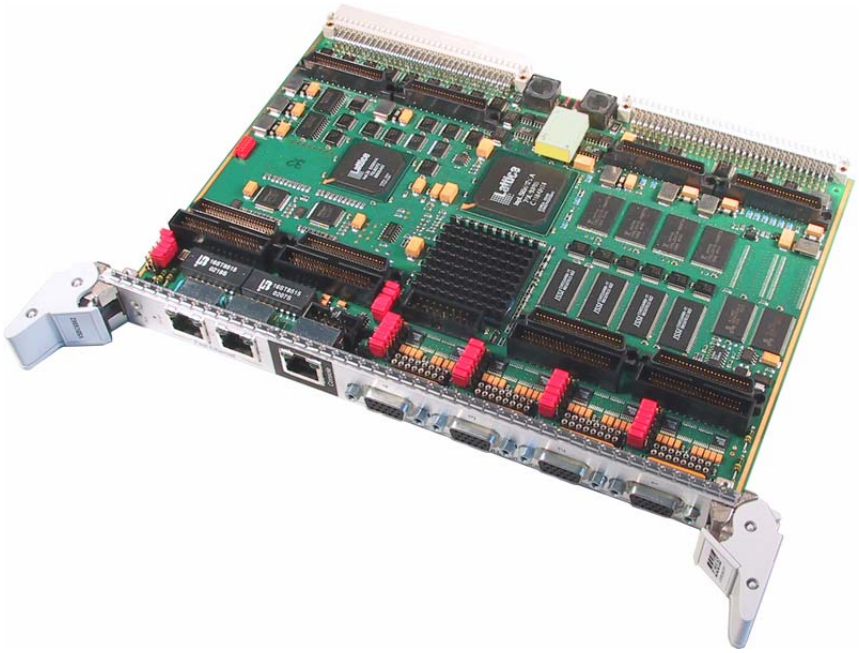
VSBC – 6862

SINGLE BOARD COMPUTER WITH POWERQUICC II

VME

Features

- PowerQUICC II® MPC8260
- VMEbus interface 32bits
- 128 MByte SDRAM
- 16 MByte FLASH
- 1 MByte SRAM
- 2 x Fast Ethernet ports
- 4 x multi protocol serial ports
- 4 x IP module slots
- RTC & 32kByte SRAM battery backed up



VSBC-6862 VME PowerQUICC II Single Board Computer is based on the MPC8260 processor. This processor is rated at 280 DMIPS @ 200 MHz and includes a very efficient SDRAM controller.

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 VSBC-6862 board includes a 32-bit VME interface (rev C):

- Master : A32/A24/A16/D32/D16/D8
- Requester : RWD, ROR, programmable request level
- Slave : A24/A16/D32/D16/D8
- Arbiter : SGL, PRI, RRS
- Handler : IH(1-7)
- Interrupter: I(1-7)
- Bus Timer : BTO(30)
- Mailbox functionality
- 1 MB - SRAM shared

Network and serial communication links

The VBSC-6862 offers a variety of on-board I/O:

- Two integrated two Fast Ethernet ports (10BASE-T / 100BASE-TX).
- One RS-232 console is available for user general purpose operations.
- One RS-232 and the I2C serial links are available on a internal connector.
- Four RS-232 or RS422/485/V.35 serial ports available ion the front panel.

Flexible I/O

For total flexibility, the VSBC-6862 is supplied with four IP slots. The user can customize the board for specific applications. All the I/Os of IP modules are available through four internal connectors. In addition, the I/Os for IP module A are also available ion the VME P2 connector.

Software

Developers can take advantage of the VSBC-6862'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 VSBC-6862 include VxWorks® and other on request.

VMEbus Technology

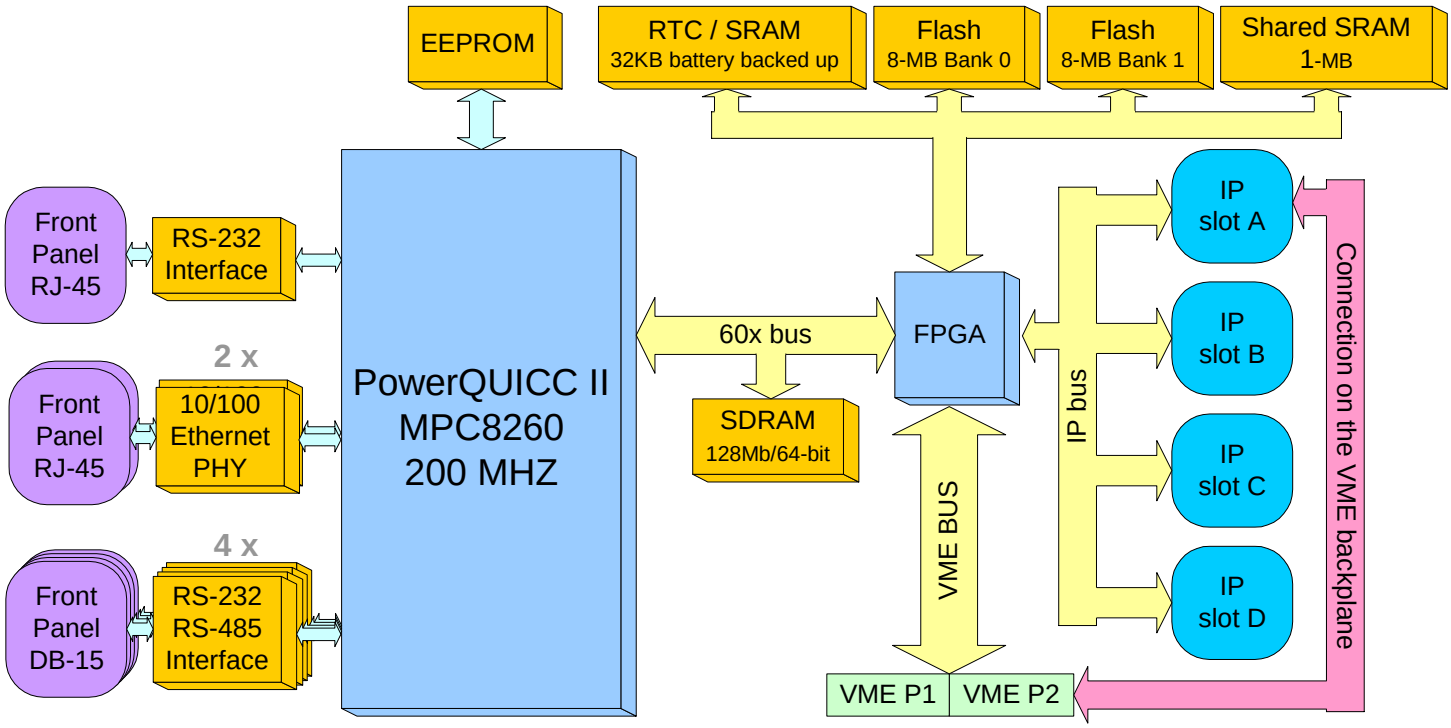
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VSBC-6862

VME



Features

- PowerQUICC II® Motorola MPC8260
- 280 MIPS @ 200 MHz
- Up to 128 MByte SDRAM
- 16 MByte FLASH
- 1MB shared SRAM

Communication

- Two Fast Ethernet ports on the front panel
- One RS-232 console port on the front panel
- One RS-232 auxiliary serial port on an internal connector.
- Four high speed serial port supporting RS-232/422/485 mode on the front panel.

Peripherals

- Real-time clock & 32KB SRAM 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
- Requester : RWD, ROR, programmable request level
- Slave : A24/A16/D32/D16/D8
- Arbiter : SGL, PRI, RRS
- Handler : IH(1-7)
- Interrupter: I(1-7)
- Bus Timer : BTO(30)
- Mailbox functionality

IP slots

- Four IP slots
- 8 MHz
- ANSI/VITA-4 1995 compatible

Environmental

Operating	0 to 70 °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	15 W typical
Vibration	0.5G RMS 20-2000 Hz random
Shock	20 G, 11 ms, ½ sine

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