Advme7509

PowerPC 750FX CPU Board

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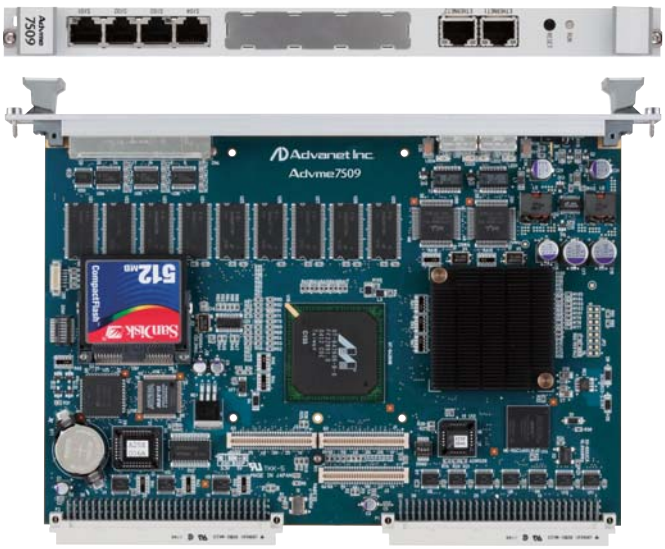


Features

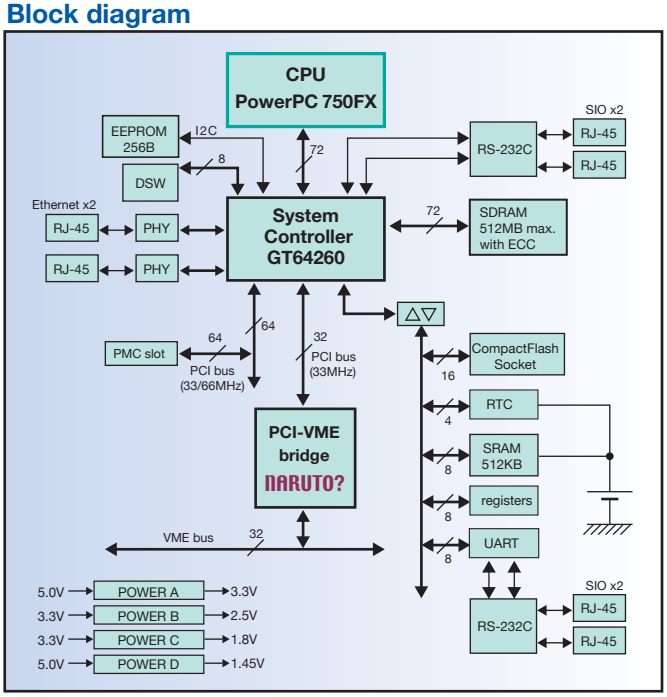
Advme7509 is a single-slot 6U VME board utilizing a PowerPC750FX processor. The board can be used as a system controller to meet high performance system requirements. The front panel includes 2ch of 10/100BASE-TX Ethernet ports and 4ch RS232 serial ports.
A variety of memory, including SDRAM (up to 512MB), CompactFlash, FlashROM, SRAM, and EEPROM are available. The external VME bus is accessible via the on-board “NARUTO II” PCI-VME bridge.

- Single-slot 6U VME PowerPC processor board
- Utilizing IBM PowerPC750FX (600MHz) CPU with 32K bytes L1 cache & 512k bytes L2 cache
- Marvell’s Discovery I (GT-64260) system controller
- Up to 512MB of dual-ported SDRAM (133.3MHz, EC/ECC) accessible from the VME bus
- 8-ch DMA controller for high speed transfers between main memory and the internal PCI bus
- 2-ch 10/100Base-TX Ethernet
- 4-ch RS232C serial ports and 4-ch RJ-45 ports
- 512k bytes Boot ROM FLASH memory accommodating an Advanet T4th boot loader
- 512k bytes SRAM and real time clock, backed up with a lithium battery
- Socket for CompactFlash memory
- 256 bytes serial EEPROM (non-volatile memory)
- A single 64-bit / 66MHz PMC slot
- Interface with the VME bus sing Advanet’s “NARUTO II” PCI-VME bridge
- Can operate as either a VME master or slave
- Requires a single 5V power supply from the VME bus

Specifications

CPU	IBM PowerPC750FX (600MHz) L1 cache:32KB/32KB,L2 cache:512KB w/ parity
Memory	256-512MB SDRAM (supports EC/ECC functions) 512KB Boot ROM Flash Memory (accommodating Advanet’s T4th boot loader) 512KB SRAM for backup 256 Bytes Serial EEPROM CompactFlash socket supporting 3.3V modules
Peripheral	4ch Serial ports (using RJ-45 connector) 2ch 10/100Base-T Ethernet (RJ-45) Single 64-bit PMC sloto Battery backup RTC
PCI-VME Bridge	[NARUTO II] (Advanet’s original)
VME bus	Bus width complies with A32/A24/A16 D32/D16/D08 (EO)Rev.C.3 Functions as master/slave, system controller, interrupter, interrupt handler, system reset, input/output
Power Requirements	5.0 VDC ±5%
Voltage consumption	5.0VDC, 6.5A max. (Excluding PMC)
Board size	6U, single-slot width
Lead-free	compliant

Block diagram



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Note: The following specifications and product appearance are subject to change for enhancement without notice.

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ISO9001
Certification: No.4016-1995-AQ-KOB-RvA Rev.1

ISO14001
Certification: No.1426-1999-AE-KOB-RvA