

Advme7510

PowerPC 440GX CPU Board



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Features

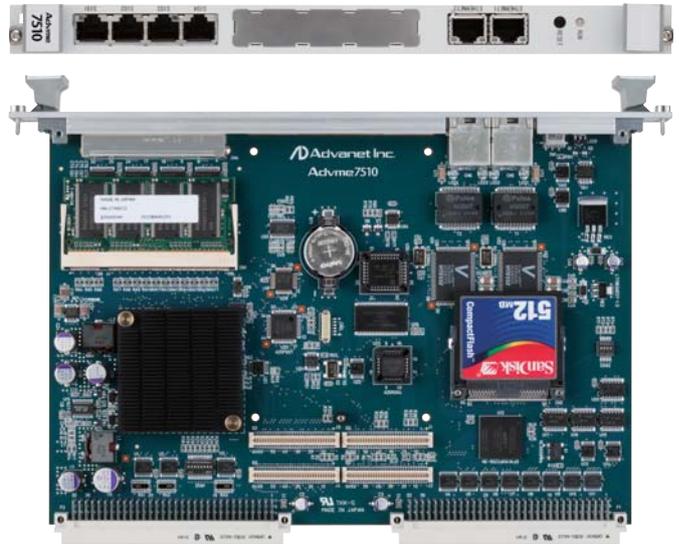
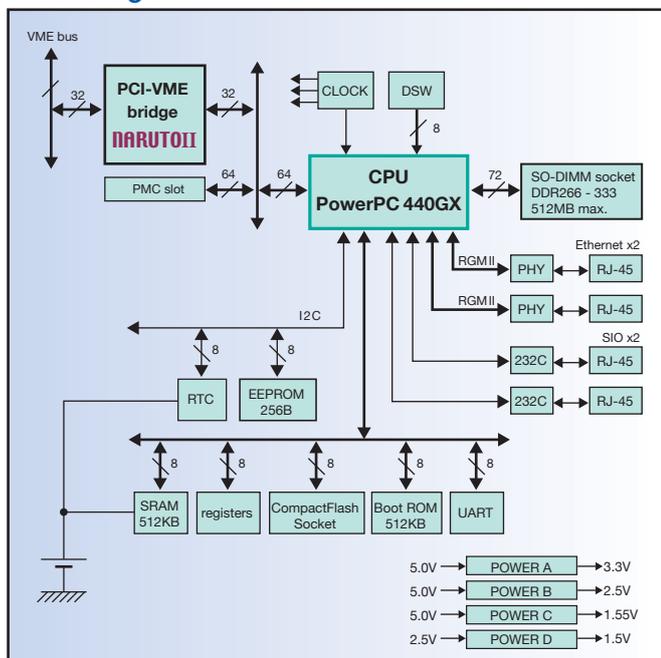
This board is a VMEbus CPU board with an onboard PowerPC440GX by AMCC.

The input/output interfaces are two Gigabit Ethernet(2ch), serial ports (4ch).

Also, a variety of memory can be used, including SO-DIMM socket (DDR-SDRAM), CompactFlash, FLASH memory, SRAM, and EEPROM. The VME interface bus, which is an external bus, has an on-board Advanet PCI-VME bridge, the "NARUTO II." The PMC module is also expandable, and is a single-board computer offering a broad array of applications.

- VME bus CPU board with the on-board PowerPC440GX(667MHz) by AMCC
- In addition to a 32 KB command/data L1-cache, on-chip SRAM (256kB) can be used as an L2 cache
- Equipped with an SO-DIMM socket (DDR333, maximum 512MB, module is optional)
- The main memory is dual port memory that also enables access from the VME bus
- 4 on-board DMA controller channels and DMA transfer between main memory and PCI is enabled (on-board function of the CPU)- Equipped with 2 channel Gigabit Ethernet (CPU internal MAC + PHY, RJ-45x2)
- Can use Compact Flash as the storage device (provided with socket; module is optional)
- The RS232C serial port is equipped with 4ch (internal CPU functions (2ch) + external UART (2ch), RJ-45x4)
- 512kB Boot ROM(FLASH Memory)
- The 512kB SRAM and real time clock are backed up with a lithium battery
- Provided with 256B serial EEPROM (nonvolatile memory)
- Equipped with a single 64bit/33MHz PMC slot, facilitating easy expansion of various functions
- Interface with the VME bus by the Advanet PCI-VME bridge, "NARUTO II"
- Can operate as a VME bus master or slave
- 6U (double height), single slot width VME bus port
- Operates with a single 5V power supply from the VME bus

Block diagram



Specifications

CPU	PowerPC440GX 667MHz by AMCC L1 cache:32KB/32KB, L2 cache:256KB
Memory	Main Memory:Maximum 512MB (module is optional) SO-DIMM compatible with DDR266-333 can be installed Boot ROM:512KB Flash Memory (accommodates Advanet T4th boot loader) Backup SRAM:512KB Serial EEPROM:256B
Peripheral	Serial portx4ch (RJ-45) 10/100/1000BASE-T Ethernet x2ch (RJ-45) PMC Slotx1 Battery backup RTC
CompactFlash	Compatible with 3.3V module (the module is an option)
PCI-VME Bridge	[NARUTO II] (Advanet original)
VME bus	Bus width: Complies with A32/A24/A16 D32/D16/D08(EO)Rev.C.3
Functions	VME bus master/slave, system controller, interrupter, interrupt handler, system reset input/output
Power Requirements	DC5.0V±5%
Voltage consumption	DC5.0V:3A(max. Does not include PMC)
Board size	6U, single slot
Lead-free compliant board	



HUMAN ELECTRONICS

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

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