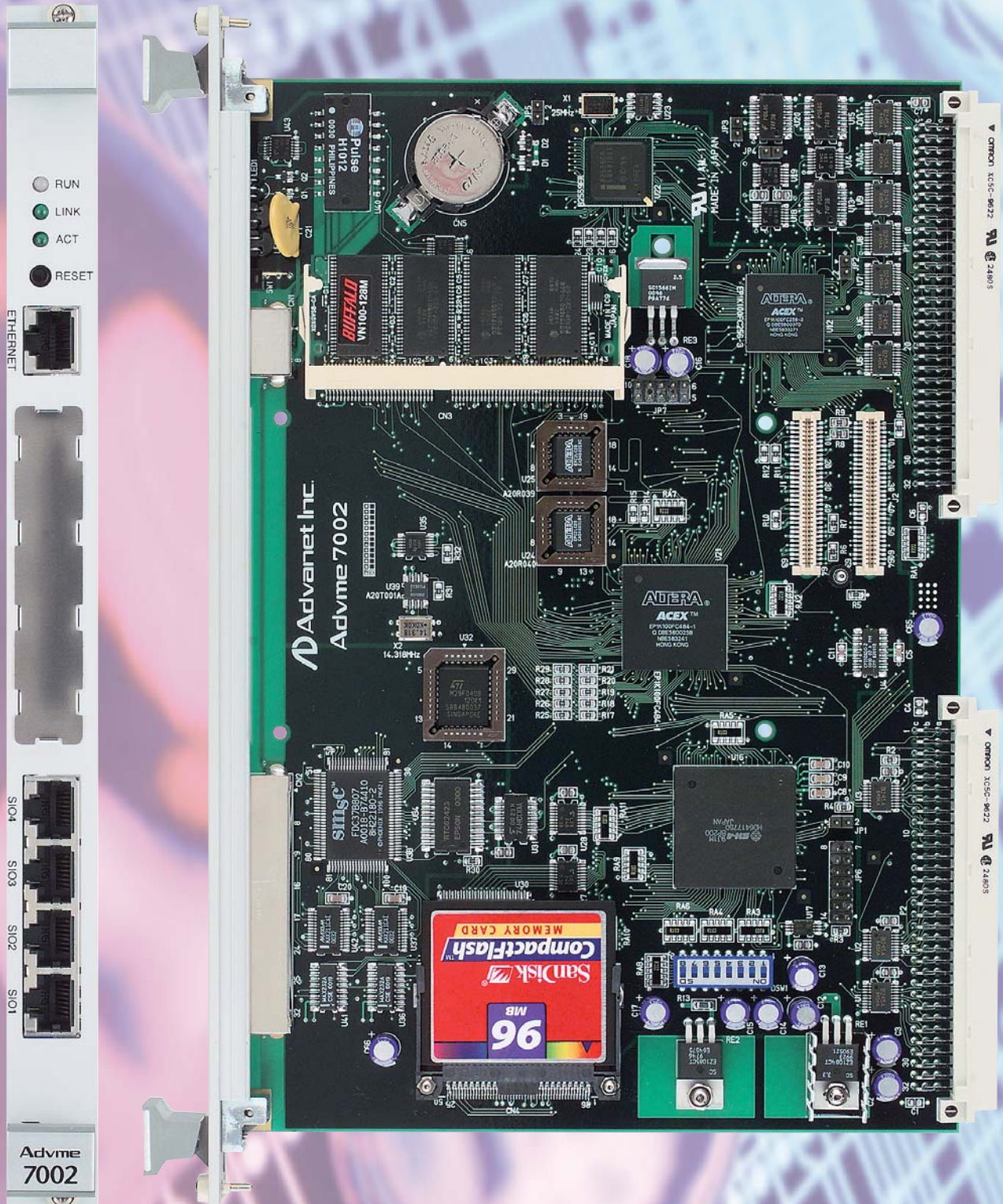


Advme7002

SH-4 CPU Board



Advme7002

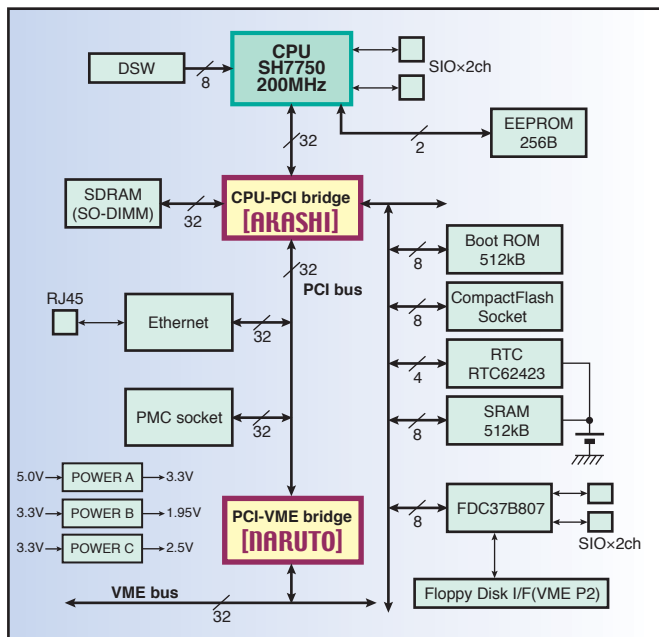
SH-4 CPU Board

Features

- VME bus board with SH-4 (SH7750)
- Up to 64MByte Dual Port SDRAM
- VME Bus Master/Slave function with a system controller
- 10/100Base-T Ethernet controller and four-channel RS-232C serial port
- CompactFlash socket to store application programs and data files
- 512KBytes of SRAM (battery backup) and real-time clock
- PMC slot for easy onboard function expansion
- T4th Boot Loader to boot OS and application programs from CompactFlash
- Hitachi 32bit RISC CPU SH7750BP200 operates at 200MHz
- AKASHI: SH4-PCI bus bridge and SDRAM controller
- NARUTO: PCI-VME bus bridge, PCI target/initiator, DMA function
- PCI internal bus with a PMC slot



Block diagram



Model

- Advme7002 : without SO-DIMM
- Advme7002-VX-BSP: BSP for VxWorks
- Advme7002-O9: BSP for OS-9
- * SO-DIMM and CompactFlash are optional for all models.

Specifications

- CPU : SH7750 256-pin BGA (200MHz)
- External clock 66.6MHz/Peripheral clock 33.3MHz
- Memory
 - SRAM : 512KBytes 8-bit data (battery backup)
 - EPROM : 512KBytes 8-bit data (for booting)
 - SDRAM : SO-DIMM socket
 - * Memory module is optional.
- EEPROM : 256Bytes
- CompactFlash : 3.3V module support
- * CompactFlash module is optional.
- Ethernet : Intel GD82559ER
- 100Base-TX / 10Base-T support, RJ-45 connector
- Interface
 - Four-channel RS-232C serial port
 - Four-channel UART (RJ-45 connector): two SH-4 built-in and two FDC37B807 built-in.
 - One PMC slot
- Peripheral
 - Real-time Clock EPSON RTC62423 (battery backup)
 - Built-in WDT SH-4
 - 8-bit DSW
- Local bus : CPU-PCI Bridge: [AKASHI]
- VME bus
 - Data bus D32/D16/D08(E0)
 - Address bus A32/A24/A16
 - Master/Slave bus controller
 - System Controller
 - Bus arbiter
 - 7 level interrupt handler
 - Interrupter for any one level
- PCI-VME Bridge: [NARUTO]
- Power requirements : DC5V only
- Board size : Double height and single width board; 262mm x 172mm x 20mm (excluding protrusions such as connectors)
- Operating temperature range : 0 to 60°C



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

ISO14001
 Certification: No. EMSC-1426