Thunder h2000M
S3992

DP AMD Rev.F Opteron™ Platform

- Dual 1207-pin Socket
- Supports up to 2 x AMD® Opteron™ Rev. F 2000 series Dual Core/Quad-core processors
- Up to 1.0GHz Hyper-Transport link support
- Broadcom BCM5780 (HT-2000) + BCM5785 (HT1000) chipset
- Total sixteen (16) 240-pin 1.8-Volt DDRII DIMM sockets.
- Support DDRII 533/667MHz Registered memory
- (2) x16 PCI Express slots (w/ x8 link)
- (3) PCI-X 64-bit 133/100MHz slots + (1) PCI 32-bit 33MHz slot
- (2) GbE LAN + (1) 10/100 FE LAN
- (1) PCI-X TYAN TAROTM SO-DIMM slot supports U320 SCSI or SAS/SATA II/SATA

(Specifications are subject to change without notice. Items pictured may only be representative.)
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Specifications

Processors
- Dual 1207-pin Socket
- Supports up to 2 x AMD® Opteron™ Rev. F 2000 series Dual Core/ Quad-core processors
- Up to 1.0GHz Hyper-Transport link support
- Integrated 128-bit DDR Memory Controller

Chipset
- ServerWorks BCM5780(HT2000) + BCM5785(HT1000) chipset
- National PC87417 Super I/O chip

Memory
- 128-bit dual channel memory bus
- Total sixteen(16) 240-pin 1.8-Volt DDRII DIMM sockets (8 on CPU1 and 8 on CPU2)
- Supports up to DDRII 667MHz
- Registered, ECC module supported

Expansion Slots
- (2) PCI Express x16 slots (each w/ x8 signal)
- (2) PCI-X 133/100MHz slot
- (1) PCI 32-bit 33MHz, v2.3 compliant slot
- One (1) 100 IDE socket
- Supports up to 20GB/sec

System Management
- (2) EMCD6103 H/W monitor chips
- Eight (8) 3+1-pin fan headers support tachometer monitoring, six (6) of them with smart FAN control
- Temperature and voltage monitoring
- Watchdog timer support

Integrated I/O
- One floppy connector
- One IDE connector

Optional modules
- M3291, IPMI 2.0 Remote System Mgmt card
- Renesas HS82167 BMC controller
- BT, KCS, Logging support
- IMPI-over-LAN
- Remote power on/off and reset
- M7901/M7902, Ultra 320 SCSI TARO card
- Adaptec AIC-7901/7902 single/dual-channel Ultra320 SCSI controller
- Adaptec HostRAID 0, 1, 10 supported
- M9000 SAS/SATA II TARO card
- Adaptec AIC-9405/9410 SAS controller
- Supports up to 4-port (M9000-5) and 8-port (M9000-10) SAS & SATA running at 3.0Gb/s
- Adaptec HostRAID 0, 1 & 10 supported

BIOS
- AMI BIOS on 8Mbit LPC Flash ROM
- ACPI 2.0 and SRAT support
- PXE via Ethernet, USB device boot
- SMBIOS 2.3.1, BBS 1.1 compliant
- Headless Operation via serial console redirect
- 48-bit LBA Support

Form Factor
- Extended ATX footprint (13" x 12")
- EPS12V/ATX12V universal power connectors

Power
- Onboard dual 4-phase VRM
- EPS12V/SSI v4.0 (24 + 8) power connectors

Regulatory
- FCC Class B (DoC)
- European Community CE (DoC)

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