

ThinkTank Q 4Way Native Core 2U

Supports up to four Dual-Core AMD Opteron™ 8000 Series Processors



Specifications

Processor/Chipset

CPU

- Quad Native Core 1207-pin Socket F
- Supports up to four Dual-Core AMD Opteron™ 8000 Series (Socket F) processor(s)

System Bus

- 1000MHz HyperTransport

Chipset

- nVidia MCP55 Pro
- IO 55
- NEC uPD720400

System Memory

Memory Capacity

- Thirty-two 240-pin DIMM sockets
- Supports up to 128 GB DDR2 667/533/400 MHz memory
- Single or Dual (recommended) channel memory support
- For Quad Core CPUs: Recommended that memory be populated equally in adjacent memory banks

Memory Type

- DDR2 667/533/400MHz buffered (registered) ECC SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes

- 256MB, 512MB, 1GB, 2GB, 4GB

Memory Voltage

- 1.8V only

Error Detection

- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

On-Board Devices

SAS

- LSI SAS1068E
- RAID 0, 1, 10 support
- (Optional: AOC-IButton68) RAID 5 support

SATA

- nVidia MCP55 Pro SATA2 3.0Gbps Controller

- Quad Native Core AMD® Opteron™ 8000 Series (Socket F) Support, 1000 MHz HyperTransport Link
- 2U Rackmountable Chassis
- Up to 128GB 32 DIMMS DDR2 667/533/400 SDRAM
- LSI 1068E SAS Controller (RAID 0, 1, 10 Supported)
- 6 x 3.5" Hot-swap Drives Trays SAS/SATA Hard Drives Supported
- 2 (x16) PCI-e slots, 1 (x8), 1(x4)(Using x8 Slot) PCI-e, 1 64-bit 133MHz PCI-X
- Redundant 1200W High-efficiency Power Supply

- 6 SATA2 Ports
- nVidia RAID 2.0
- SATA RAID 0, 1, 0+1, 5 JBOD Support

IPMI

- Support for Intelligent Platform Management Interface v.2.0
- 200-pin IPMI slot
- (Optional: AOC-SIMLC(+))
- (Optional: AOC-SIM1U(+))
- RMM (Remote Management Module)
- (Card not included)

Network Controllers

- Intel® 82546GB Dual Port Gigabit Ethernet Controller
- Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Super I/O

- Winbond 83627HG

VGA

- ATI ES1000 Graphics Controller

Input / Output

SATA

- 6 SATA2 ports

IDE

- Single EIDE channel support up to two UDMA IDE devices
- Supports UDMA Mode 5
- Supports PIO Mode 4
- Supports ATA 100 / 133

Floppy

- 1 Floppy port; 1.44 MB support

LAN

- 2 RJ45 LAN ports

USB

- Up to 4 USB Ports 2.0/1.1 Compliant
- 2 Rear Ports
- 2 Internal Headers

Keyboard / Mouse

- PS/2 keyboard and mouse ports

Serial Ports

- 1 Fast UART 16550 serial port
- 1 Header

VGA

- 1 VGA port

For more information on ThinkCP™ please call
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Continue To Next Page

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ISO 9001 : 2000
FM 54580

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ThinkCP™
Technologies

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Chassis Specifications

System BIOS

BIOS Type

- 8Mb Flash EEPROM with AMI® BIOS
- SST 49LF080A BIOS Chip

BIOS Features

- Plug and Play (PnP)
- DMI 2.3
- PCI 2.2
- ACPI 2.0/1.0
- USB Keyboard Support
- SMBIOS 2.3

Chassis

Form Factor

- 2U Rackmount

Dimensions

Height

- 2U - 3.5" (89mm)

Width

- 17.2" (437mm)

Depth

- 27.75" (708mm)

Gross Weight

- 69 lbs (31.3kg)
- Available Colors
- Black

Front Panel

Buttons

- Power On/Off button
- System Reset button

LEDs

- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat / Fan Fail LED
- Power fail LED

Ports

2x USB Ports + DB9 COM Port

Expansion Slots

PCI-Express

- 2 x16 PCI-e Slots
- 1 x8 PCI-e Slot
- 1 x4 PCI-e Slot (Using x8 Slot)

PCI-X

- 1 64-bit 133 MHz PCI-X (3.3V) slot
- OR 1 SIMLC Slot

Drive Bays

Hot-swap

- 6 x 3.5" SATA Hot-swap drive trays
- Supports up to 6x SATA hard drives

Peripheral Drives

DVD-ROM

- Slim 8x DVD, 24x CD, DVD-ROM Drive

Floppy

- Slim 1.44MB Floppy Drive (Optional)

SAS / SATA Backplane

- 1x 2U SAS / SATA backplane with Enclosure Management (SGPIO)

System Cooling

Fans

- 6x 80mm 6500 RPM fans

Shroud

- 1x Air Shroud

Power Supply

(1 + 1) Redundant 1200W high-efficiency power supply w/ PFC

AC Voltage

- 100 - 240V, 50 - 60Hz, 6 - 15Amp

+5V

- 20 Amp

+5V standby

- 4 Amp

+12V

- 100 Amp

-12V

- 0.6 Amp

+3.3V

- 20 Amp

PC Health Monitoring

CPU

- Monitors CPU Core Voltages, +3.3V, +5V, +12V, +5V Standby, VBAT.
- CPU 5-Phase-switching voltage regulator

FAN

- Total up to 9-fan status tachometer monitoring
- Up to nine 3-pin fan headers
- Status monitor for speed control
- Support 3-pin fans with fan-speed control
- Low noise fan speed control

Temperature

- Monitoring for CPU and chassis environment
- CPU Thermal Trip Support
- PC Temperature Sensing Logic

LED

- CPU / System Overheat LED
- +5V Standby Alert LED

Other Features

- Chassis Intrusion Detection
- Chassis Intrusion Header

Operating Environment / Compliance

Environmental Spec.

- Operating Temperature: 10° to 35° C (50° to 95° F)
- Non-operating Temperature: -40° to 70° C (-40° to 158° F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5 to 95% (non-condensing)

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