

# ThinkTankQ ORTEN-MP



## ThinkTankQ ORTEN-MP Highlights

- Real-Time Geographic Network Mapping
- Zoom-in to Region or Device Levels
- Supports IPv6 & IPv4
- SQL Data Logging for All Activity
- Up to 4 AMD Opteron Quad or Dual Core Processors
- Ideal for Troubleshooting, Expansion Planning & Security Monitoring
- Optional Remote Management & Wireless Probe Pack
- Supports Windows, Linux, Mac, Sun & Unix Networks

**(Optimized Real Time Enterprise Network Monitoring Platform)  
Featuring Integrated Dartware InterMapper Based IPv6**



**ISO 9001 : 2000**

FM 54580

The ThinkTankQ ORTEN-MP features an optimized AMD Opteron Multi-Core CPU platform with Dartware InterMapper® fully integrated to provide network and system administrators with a real-time geographic perspective of their network traffic, allowing them to zoom in on various regions or specific devices within the infrastructure. This enables system and network administrators to deliver consistently high quality of service via network troubleshooting, network expansion planning and permanent documentation of network activity. The system may assist network administrators in identifying, documenting and mitigating security breaches or denial-of-service attacks as they first occur. Remote software management is obtained via the optional InterMapper Remote Access™ and mapping of wireless devices via Dartware's optional Wireless Probe Pack.

The 2U base unit supports up to 4 AMD Opteron Quad-Core or Dual-Core processors, 128Gigabytes of DDR2 SDRAM, 6 Terabytes of SATA2 hot-swappable storage and 2 1000Base-T network controllers. Based on customer preferences, ThinkCP will configure the system with Neterion XFrame® Series V-NIC

10GbE Adapters, SAS Expanders or an IPMI module. On-site installation, training and warranty programs are optional. Federal customers and resellers may also add "Keep Your Broken Hard Drive" and advance exchange warranties as required.

The custom-integrated ThinkTankQ™ ORTEN-MP platform or separate Dartware software applications can be purchased directly from ThinkCP. The solutions and software are available on GSA Schedule for qualified government agencies. ThinkCP facilitates GSA teaming arrangements to qualified government contractors and resellers who are encouraged to contact ThinkCP directly.



For more information on ThinkCP™ please call  
**toll free (800) 726-2477** or visit us at **www.ThinkCP.com**

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Rev. 06/08



# ThinkTankQ ORTEN-MP Specifications

## Processor/Chipset

- CPU:
- Quad 1207-pin Socket F
  - Supports up to four Quad-Core / 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 CPUs: Recommended that memory be populated equally in adjacent memory banks
  - DDR2 667/533/400MHz buffered (registered) ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
  - 256MB, 512MB, 1GB, 2GB, 4GB \*\*
  - 1.8V only
  - Corrects single-bit errors
  - Detects double-bit errors (using ECC memory)
- Memory Type:
- DIMM Sizes
- Memory Voltage
- Error Detection

## On-Board Device

- SATA:
- nVidia MCP55 Pro SATA2 3.0Gbps Controller
  - 6 SATA2 Ports
  - nVidia RAID 2.0
  - SATA RAID 0, 1, 0+1, 5 JBOD Support
  - Support for Intelligent Platform Management Interface v.2.0
  - 200-pin IPMI slot
  - RMM (Remote Management Module)
  - (Card not included)
  - Note: Dedicated LAN connection is required for KVM-over-LAN function.
- IPMI:
- Intel® 82546GB Dual Port Gigabit Ethernet Controller
  - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- Network Controllers:
- Winbond 83627HG
  - ATI ES1000 Graphics Controller
- Super I/O:
- VGA:
- ATI ES1000 Graphics Controller

## Input / Output

- SATA:
- 6 SATA2 ports
  - Single EIDE channel support up to two UDMA IDE devices
  - Supports UDMA Mode 5
  - Supports PIO Mode 4
  - Supports ATA 100 / 133
  - 1 Floppy port: 1.44 MB support
  - 2 RJ45 LAN ports
  - Up to 4 USB Ports 2.0/1.1 Compliant
  - 2 Rear Ports
  - 2 Internal Headers
  - PS/2 keyboard and mouse ports
  - 1 Fast UART 16550 serial port
  - 1 Header
  - 1 VGA port
- IDE:
- Floppy:
- LAN:
- USB:
- Keyboard/ Mouse:
- Serial Ports:
- VGA:

## System BIOS

- BIOS Type:
- 8Mb Flash EEPROM with AMI® BIOS
  - SST 49LF080A BIOS Chip
  - Plug and Play (PnP)
  - DMI 2.3
  - PCI 2.2
  - ACPI 2.0/1.0
  - USB Keyboard Support
  - SMBIOS 2.3
- BIOS Features:

## Chassis

- Form Factor : 2U Rackmount
- Dimensions
- Height: 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
  - Power LED
  - Hard drive activity LED
  - 2x Network activity LEDs
  - System Overheat / Fan Fail LED
  - Power fail LED
  - 2x USB Ports + DB9 COM Port
- LEDs:

## Ports:

### Expansion Slots

- PCI-Express:
- 2 x16 PCI-e Slots
  - 1 x8 PCI-e Slot
  - 1 x4 PCI-e Slot (Using x8 Slot)
  - 1 64-bit 133 MHz PCI-X (3.3V) slots
  - OR 1 SIMLC Slot
- PCI-X:

### 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)

### SATA Backplane

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

### System Cooling

- Fans: 6x 80mm 6500 RPM fans
- Shroud: 1x Air Shroud

### Power Supply

- 1200W (1 + 1) Redundant high-efficiency power supply w/ PFC
- AC Voltage: 100 - 240V, 50 - 60Hz, 6 - 15Amp
- +5V: 30 Amp
- +5V standby: 4 Amp
- +12V: 100 Amp
- 12V: 0.6 Amp
- +3.3V: 25 Amp

### PC Health Monitoring

- CPU:
- Monitors CPU Core Voltages, +3.3V, +5V, +12V, +5V Standby, VBAT.
  - CPU 5-Phase-switching voltage reulator
  - 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
  - Monitoring for CPU and chassis environment
  - CPU Thermal Trip Support
  - PC Temperature Sensing Logic
  - CPU / System Overheat LED
  - +5V Standby Alert LED
- Fan:
- Chassis Intrusion Detection
  - Chassis Intrusion Header
- Temperature:
- LED:
- Other Features:

### Operating Environment / Compliance

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

- AC Voltage: 100 - 240V, 50 - 60Hz, 8.5 - 4Amp
- +5V: 25 Amp
- +5V standby: 3 Amp
- +12V: 43.6 Amp
- 12V: 0.6 Amp
- +3.3V: 21 Amp

### PC Health Monitoring

#### CPU

- Monitors CPU Core Voltages, +1.5V, +3.3V, +5V, ±12V, 5V Standby, HyperTransport Link voltage 1.2V, memory voltage 1.8V, VBAT, Chipset
- CPU 4-Phase-switching voltage reulator

#### FAN

- Total up to 5-fan status tachometer monitoring
- Up to five 3-pin fan headers
- Status monitor for speed control
- Status monitor for on/off control
- Support 3-pin fans with fan-speed control
- Low noise fan speed control
- Overheat backup fan connector

#### Temperature

- Monitoring for CPU and chassis environment
- CPU Thermal Trip Support
- I2C Temperature Sensing Logic

#### LED

- CPU / System Overheat LED
- Suspend-State Indicator LED
- +5V Standby Alert LED

#### Other Features

- Chassis Intrusion Header
- Chassis Intrusion Detection

### Operating Environment / Compliance

#### Environmental Specifications

- Operating Temperature: 10°C to 35°C (50°F to 95°F)
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For more information on ThinkCPT™ please call toll free (800) 726-2477 or visit us at [www.ThinkCP.com](http://www.ThinkCP.com)

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