



## SPECIFICATIONS

### GENERAL

- 19" rack chassis, 1RU height
- RoHS-6 compliant per EU 2002/95/EC

### PROCESSOR SUPPORT

- Supports TILE-Gx36 processors with 36 cores @ 1.2 GHz and 23MB cache

### MEMORY SUPPORT

- Four DIMM sockets on each processor module with capacities from 2 Gb to 16 Gb per socket
- DDR3 Very Low Profile (VLP) DIMMs
- Supports RDIMM or UDIMM with ECC

### HIGH-SPEED I/O

Pluggable I/O modules:\*

- Quad 10G/1G with SFP+/SFP interfaces

### MISCELLANEOUS I/O

- One RS-232 UART port to TILE-Gx processor (rear panel)
- One RS-232 UART port to BMC (rear panel)
- One USB 2.0 port, type B endpoint (front panel)
- One USB 2.0 port, type A host (internal)
- Dual 1 Gbps SFP ports (driven from the TILE-Gx processor via PCIe to the dual-channel NIC device)

### EXPANSION PCIE CARD

- QSFP connectors
- Passive copper or active fiber cables
- Fiber media adapters

### MASS STORAGE

- Internal 240 GB mSATA solid state drive
- Internal SATA disc drive: SSD or rotating, 2.5" (optional)

### SYSTEM MANAGEMENT

Integrated Baseboard Management Controller (BMC) interface provides:

- Access to management statistics and monitor logs for device sensors
- Fan operation monitoring of fan speed and fan status
- Support for general IPMI commands
- One 10/100 Ethernet management port
- One rear-panel RS-232 management port (RJ45)

### OTHER FEATURES

- Battery-backed Real-Time Clock (RTC)
- 256 Kb I<sup>2</sup>C ROM
- 16 MB SPI ROM
- IPMI measurement of regulated system voltages and current draw

### SECURITY FEATURES

- FIPS 140-2 level 3 ready hardware
- Integrated Maxim Security Manager IC with secure key memory
- Battery backed-up cover tamper detection
- Multiple physical intrusion sensors

### POWER

- Integrated Redundant AC Power Supplies: 115/230 VAC, 50/60 Hz
- Power Dissipation (typical): 140 W
- Cooling:
  - Redundant field-replaceable fan trays. Standard rear to front airflow.
  - Tachometer feedback for fan fail detection.

## OPERATING CONDITIONS

### COMPLIANCE

- RoHS-6 compliant per EU 2002/95/EC

### ENVIRONMENTAL

- Operating temperature: 0 to 40° C
- Storage temperature: -40° to 70° C
- Humidity: 10% to 90% RH, non-condensing

### PHYSICAL SPECIFICATIONS

- Box height: 1.7" (4.3 cm)
- Box length: 22.25" (56.6 cm)
- Box width: 17" (43.3 cm)
- Weight: 23.0 lbs (10.4 kg)

### INCLUDED ACCESSORIES

- Sliding rack mount rail kit
- PCIe riser adapter for internal PCIe card
- Serial console adapter and cable

### CUSTOMER PROVIDED ACCESSORIES

- SFP and SFP+ cartridges for Ethernet I/O
- Ethernet interface cables
- PCIe card (optional)
- SATA memory card (optional)

\*Contact Mellanox for availability of other high-speed I/O modules.

Ordering Part Number	Processor	Processor Frequency	Memory Installed	MiCA Crypto	I/O Interfaces	Drives Installed
TLB4-03680-12-RM1US-4S10-32-240HD-FR-ST	TILE-Gx8036	1.2 GHz	32 GBytes	Yes	Four 1G/10G SFP/ SFP+ ports	Yes



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