

# QuantaMesh BMS T1048-LY4R



## The Next Wave Data Center Rack Management Switch

- ONIE Pre-loaded
- x86 Support
- ONL Ready
- BMC Built-in

Data center networks face changes with hardware and meeting the requirements of the software it hosts. Quanta Cloud Technology provides a series of Bare Metal Switches, the QuantaMesh BMS product line, that addresses these changes in the data center market. The QuantaMesh BMS product lines support speeds up to 100G speeds on their Ethernet Switches. To meet the requirements of high performance, high availability, fast scale out, low latency performance, and continuous serviceability in data center applications, the QuantaMesh BMS product line is the best choice.

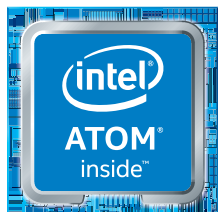
BMC (Baseboard Management Controller) embedded on the server as the core of the Intelligent Platform Management Interface (IPMI) architecture can now be implemented in the Ethernet switch. In addition to providing health monitoring of the temperature, power status, and cooling fans; BMC also aids in the deployment and management of software and hardware peripherals.

QuantaMesh T1048-LY4R supports 48 10BASE-T/100BASE-TX/1000BASE-T and 4 1/10G SFP+ ports equipped with BMC in a compact rack unit size. T1048-LY4R plays a management role in a server rack with not only Ethernet switch functions but also IPMI 2.0 compliance. With ONIE (Open Network Installation Environment) pre-loaded it can be used with any OS which supports the ONIE installer to achieve agile installation and fast response for today's IT demands.

### About QCT

Quanta Cloud Technology (QCT) is a global data center solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation data center design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined data center solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.



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Found at: [www.QCT.io/wheretobuy](http://www.QCT.io/wheretobuy)

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QCT authorized partner

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#### Physical ports

- **Port configuration:** 48 10/100/1000BAE-T and 4 1/10GbE SFP+ ports
- **Management Port:**  
Out-of-band management port:  
1 x RJ-45 (10/100/1000BASE-T)  
1 x SFP (1000BASE-X)
- **Console Port:** 1 (RJ-45)
- **USB:** USB 2.0

#### Performance

- **Switching capacity:** 176Gbps
- **Maximum forwarding rate:** 131Mpps
- **MAC:** 16K

#### High Availability

- **Redundant power supply:** 1+1
- **Hot-swappable fan tray:** 3 fixed fans

#### BMC

- **IPMI:** v1.5/v2.0 compliance
- **Serial over LAN**
- **SNMP:** v1/v2/v3
- **SMASH**
- **HTTPS**
- **Health status and hardware monitoring**
- **Event log**
- **PEF and PET**
- **Chassis management**
- **Watchdog and system re-start**

#### Mechanical

- **Dimension (HxWxD):** 43.2x440x394mm
- **Weight:** T1048-LY4R 1 + 1 PSU: 6.04kg(NET)  
T1048-LY4R Single PSU: 5.57kg (NET)

#### Environmental Specifications

- **Operating temperature:** 0~45°C
- **Operating humidity:** 90% maximum relative humidity

#### Electrical

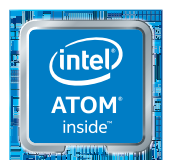
- **Power requirement:** 100~240VAC, 50/60Hz
- **Power consumption:** 66 watts (100% fan duty)
- **Safety:** UL, cUL, CB
- **EMC:** CE, FCC

#### Supported Optics and Cables

- **1000BASE-T:** Cat 5e and Cat 6A (100m/330 ft)
- **DAC cable (SFP+):** 0.5m, 1m, 1.5m, 2m, 2.5m, 3m, and 5m
- **AOC cable (SFP+, 850nm, MMF):** 1m, 3m, 7m, 10m, 20m, and 100m
- **10G optic (SFP+, LC, 850nm, MMF):** 10GBASE-SR optic
- **10G optic (SFP+, LC, 1310nm, SMF):** 10GBASE-LR optic

#### Order Information

- **BMS T1048-LY4R (1LY4BZZ0STA) (Front to Back, 1+1 PSU, rail kit included)**
- **BMS T1048-LY4R(1LY4BZZ0STB) (Back to Front, 1+1 PSU, rail kit included)**
- **BMS T1048-LY4R (1LY4BZZ0STE) (Front to Back, single PSU, rail kit included)**
- **BMS T1048-LY4R(1LY4BZZ0STF) (Back to Front, single PSU, rail kit included)**
- **BMS T1048-LY4R (1LY4BZZ0STG) (Front to Back, 1+1 PSU, rail kit included, Rangeley with CL OS pre-loaded, US only)**
- **BMS T1048-LY4R(1LY4BZZ0STH) (Back to Front, 1+1 PSU, rail kit included, Rangeley with CL OS pre-loaded, US only)**
- **BMS T1048-LY4R (1LY4BZZ0STI) (Front to Back, single PSU, rail kit included, Rangeley with CL OS pre-loaded, US only)**
- **BMS T1048-LY4R(1LY4BZZ0STJ) (Back to Front, single PSU, rail kit included, Rangeley with CL OS pre-loaded, US only)**



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