

QuantaMesh BMS T3048-LY7



The Next Wave Data Center/Enterprise Switch

- ONIE Pre-loaded
- x86 CPU Board 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.

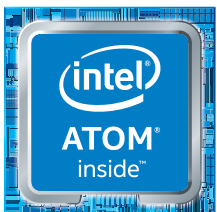
BMC (Baseboard Management Controller) embedded on the server as the core of the Intelligent Platform Management Interface (IPMI) architecture can now be implemented in the Ethernet switch. In addition to providing health monitoring of the temperature, power status, and cooling fans; BMC also aids in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

QuantaMesh T3048-LY7 supports 48 SFP+ (1/10GbE speed) ports and 4 QSFP28 (40/100GbE speed) in a compact rack unit size. By leveraging merchant silicon chip, T3048-LY7 is a high performance high density Ethernet switch with advanced features such as smart table, dynamic load balancing, and RIOT support. With ONIE (Open Network Installation Environment) pre-loaded it could be used for any OS which supports ONIE installer to achieve agile installation and fast response for the changing demand.

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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United States

QCT LLC, Silicon Valley office
1010 Rincon Circle, San Jose, CA 95131
TOLL-FREE: 1-855-QCT-MUST
TEL: +1-510-270-6111
FAX: +1-510-270-6161
Support: +1-510-270-6216

China

云达科技, 北京办公室
(Quanta Cloud Technology)
北京市朝阳区东大桥路12号润诚中心2号楼
TEL: +86-10-5920-7600
FAX: +86-10-5981-7958

云达科技, 杭州办公室

(Quanta Cloud Technology)
浙江省杭州市西湖区古墩路浙商财富中心4号楼
303室
TEL: +86-571-2819-8650

Japan

Quanta Cloud Technology Japan 株式会社
日本国東京都港区芝大門二丁目五番八号
牧田ビル3階
TEL: +81-3-5777-0818
FAX: +81-3-5777-0819

Taiwan

雲達科技 (Quanta Cloud Technology)
桃園市龜山區文化二路211號1樓
TEL: +886-3-286-0707
FAX: +886-3-327-0001

Germany

Quanta Cloud Technology Germany GmbH
Hamborner Str. 55, 40472 Düsseldorf
TEL: +49-2405-4083-1300

Other regions

Quanta Cloud Technology
No. 211 Wenhua 2nd Rd., Guishan Dist.,
Taoyuan City 33377, Taiwan
TEL: +886-3-327-2345
FAX: +886-3-397-4770

QCT authorized partner

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Physical ports

- **Port configuration:**
48 SFP+ ports support 1/10GbE and 4 QSFP28 ports support 40/100GbE
- **Management Port:**
1 RJ-45 out-of-band management port (10/100/1000M)
- **Console Port:** 1 RJ-45 console port
- **USB:** 1 USB 2.0 port

Performance

- **Switching capacity:** 1.02Tbps
- **Maximum forwarding rate:** Line Rate Performance (>427B)
- **Latency:** <900ns (10G speed)
- **MAC:** Unified Forwarding Table to dynamically allocate the L2/ L3 tables

CPU Board 1

- **CPU:** Intel Atom® Processors
- **Memory:** 8GB DDR3/ECC
- **Storage:** SSD: 32GB

High Availability

- **Redundant power supply:** 1+1
- **Hot-swappable fan tray:** N+2

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):** 43.4x440x508mm
- **Weight:** 8.88kg(NET)

Environmental Specifications

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

Electrical

- **Power requirement:** 100~240VAC, 50/60Hz
- **Power consumption:** 174W (100% fan duty)
- **Safety:** UL, cUL, CB, CCC
- **EMC:** CE, FCC, VCCI

RoHS

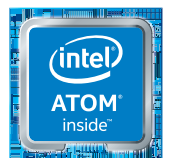
- **Reduction of Hazardous Substances (RoHS) 6**

Supported Optics and Cables

- **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
- **DAC cable (QSFP+):** 1m, 3m, and 5m
- **DAC cable (QSFP+, fan-out):** 1m, 3m, and 5m
- **AOC cable (QSFP+, 850nm, MMF):** 7m and 10m
- **DAC cable (QSFP28):** 1m, 3m, and 5m
- **DAC cable (QSFP28, fan-out):** 3m
- **AOC cable (QSFP28, 850m, MMF):** 1m, 3m, 5m, and 10m
- **10G optic (SFP+, LC, 850nm, MMF):** 10GBASE-SR optic
- **10G optic (SFP+, LC, 1310nm, SMF):** 10GBASE-LR optic
- **40G optic (QSFP+, MPO, 850nm, MMF):** 40GBASE-SR4
- **40G optic (QSFP+, LC, 1310nm, SMF):** 40GBASE-LR4
- **100G optic (QSFP28, MPO, 850nm, MMF):** 100GBASE-SR4
- **100G optic (QSFP28, MPO, 1310nm, SMF):** 100GBASE-PSM4
- **100G optic (QSFP28, LC, 1310nm, SMF):** 100GBASE-LR4

Order Information

- **BMS T3048-LY7 (1LY7UZZ0ST2) Front to Back, with rail kit**
- **BMS T3048-LY7 (1LY7UZZ0ST3) Back to Front, with rail kit**
- **BMS T3048-LY7 (1LY7UZZ0ST4) (F-2-B, AC, Rangeley with CL OS pre-loaded, US only)**
- **BMS T3048-LY7 (1LY7UZZ0ST5) (B-2-F, AC, Rangeley with CL OS pre-loaded, US only)**
- **PSU - Red (AF500B00074) (F-2-B, AC, 500W)**
- **PSU - Blue (AF500B00075) (B-2-F, AC, 500W)**
- **FAN Module (1HYQZZ0165) (F-2-B)**
- **FAN Module (1HYQZZ0166) (B-2-F)**



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