QuantaMesh BMS T4048-IX8D





The Next Wave Enterprise Data Center 25G Switch

- ONIE Pre-load
- x86 CPU Board
- BMC Built-in
- QNOS Ready

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 QCT BMS product line, that addresses these changes in the data center market. The QCT BMS product lines support speeds up to 100G speeds on its 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 QCT 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.

QCT BMS T4048-IX8D supports 48 SFP28 and 8 QSFP28 (10/25/40/50/100 GbE speed) ports and is equipped with BMC in a compact rack unit size. By levering merchant silicon chip, T4048-IX8D is fully compliant with IEEE 802.3by and is a high performance high density Ethernet switch with advanced features such as smart table, dynamic load balancing, and VxLAN/RIOT support. T4048-IX8D also improves the performance for larger packet buffers adn reduced latency. With ONIE (Open Network Installation Environment) pre-loaded T4048-IX8D can be used for multiple network operating system 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.





Found at: www.QCT.io/wheretobuy

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

TEL: +80-571-28

Japan Quanta Cloud Technology Japan 株式会社 日本国東京都港区芝大門二丁日五番八号 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 SFP28 (10/25GbE) and 8 QSFP28 ports (10/40 or 25/50/100GbE)
- Management Port: Out-of-band management port (RJ-45, 10/100/1000Base-T)
- **Console Port:** 1 RJ-45 console port
- **USB:** 1 USB 2.0 port
- Performance
- Switching capacity: 4Tbps
- Maximum forwarding rate: 2Bpps
- · Latency: Ultra-low latency
- MAC: Unified Forwarding Table to dynamically allocate the L2/L3 tables
- Major Components
- · ASIC: Broadcom StrataXGS Trident3 BCM56873

x86 CPU Module

- **CPU:** Intel Atom[®] Processors C3558
- Memory: 8GB DDR3/ECC
- Storage: SSD: 128GB

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

High Availability

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

Mechanical

- Dimension (HxWxD): 43.2x440x508mm
- Weight: 9.73kg/21.43lbs(NET)
- Environmental Specifications
- Operating temperature: 0~45°C
- · Operating humidity: 90% maximum relative humidity
- Operating Altitude: 0 to 2952 ft, (0-900m)

Electrical

- · Power requirement: 100~240VAC, 50/60Hz
- · Power consumption: 394W (100% fan duty)

Safety

· UL, cUL, CB, CCC, BSMI

EMC

· CE, FCC, VCCI, BSMI, CCC

RoHS

- · Reduction of Hazardous Substances (RoHS) 6
- **Supported Optics and Cables**
- · DAC cable (QSFP+): 1m, 3m, and 5m
- · DAC cable (QSFP+, fan-out): 1m, 3m, and 5m
- DAC cable (QSFP28): 1m, 3m, and 5m
- · DAC cable (QSFP28, fan-out): 3m
- DAC cable (SFP28): 1m, 3m and 5m
- · AOC cable (QSFP+, 850nm, MMF): 7m and 10m
- · AOC cable (QSFP28, 850m, MMF): 1m, 3m, 5m, and 10m
- AOC cable (SFP28, 850nm, MMF): 1m, 3m and 5m
- · 25G optic (SFP28, LC, 850nm, MMF): 25GBASE-SR
- · 40G optic (QSFP+, MPO, 850nm, MMF): 10GBASE-SR4
- 40G optic (QSFP+, LC, 1310nm, SMF): 10GBASE-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
- \cdot T4048-IX8D (1IX8UZZ0004) Front to Back, with Rail Kit
- \cdot T4048-IX8D (1IX8UZZ0005) Back to Front, with Rail Kit
- PSU Red (1HY9ZZZ071Y) (F-2-B, AC, 750W)
- PSU Blue (1HY9ZZZ0720) (B-2-F, AC, 750W)
- · FAN Module (1HYQZZZ0165) (F-2-B)
- · FAN Module (1HYQZZZ0166) (B-2-F)



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