

QuantaMesh BMS T4048-IX8



The Next Wave Enterprise Data Center 25G Switch

- 48 x 25G SFP28
and 8 x 100G QSFP28
- x86 CPU Board
- ONIE Pre-loaded
- ArcOS® Ready
- Enterprise SONiC

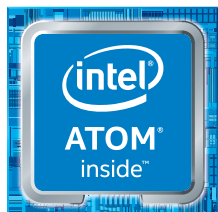
Data center networks face changes with hardware and meeting the requirements of the software it hosts. Quanta Cloud Technology provides a series of Bare Metal Switches, the QCT BMS product line, that addresses these changes in the data center market. The QCT BMS product lines support speeds up to 100G 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.

QCT BMS T4048-IX8 supports 48 SFP28 and 8 QSFP28 (10/25/40/50/100 GbE speed) ports and in a compact rack unit size. By leveraging merchant silicon chip, T4048-IX8 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-IX8 also improves the performance for larger packet buffers and reduced latency. With ONIE (Open Network Installation Environment) pre-loaded T4048-IX8 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.



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United States

Quanta Cloud Technology USA 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

Quanta Cloud Technology USA LLC., Seattle Office
13810 SE Eastgate Way, Suite 190, Building 1, Bellevue, WA 98005
TEL: +1-425-633-1620
FAX: +1-425-633-1621

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 501 室
TEL: +86-571-2819-8650

Japan

Quanta Cloud Technology Japan 株式会社
東京都港区芝大門2-5-8 芝大門牧田ビル3F, 105-0012
TEL: +81-3-5777-0818
FAX: +81-3-5777-0819

Germany

Quanta Cloud Technology Germany GmbH
Hamborner Str. 55, 40472 Düsseldorf
TEL: +49-211-74077-300

Korea

QCT Korea, Inc. (주식회사 큐씨티코리아)
서울특별시 영등포구 의사당대로 97 교보증권빌딩 10층, 07327
TEL: +82-10-5397-1412
FAX: +82-2-6336-6710

Singapore

Quanta Cloud Technology Singapore Pte. Ltd.
5 Shenton Way, #10/11-01, UIC Building Singapore, 068808
TEL: +65-6911-6781

Taiwan/ Other Regions

雲達科技 (Quanta Cloud Technology)
桃園市龜山區文化二路211號1樓
1F, No. 211 Wenhua 2nd Rd., Guishan Dist.,
Taoyuan City 33377, Taiwan
TEL: +886-3-286-0707
FAX: +886-3-327-0001

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 Trident3 BCM56873
- **CPU:** Intel Atom Processors
- **Memory:** 8GB DDR3/ECC
- **Storage:** SSD: 32GB

Mechanical

- **Dimension (HxWxD):** 43.2x440x508mm
- **Weight:** 9.71kg(NET)

Environmental Specifications

- **Operating temperature:** 0~45°C
- **Operating humidity:** 90% maximum relative humidity
- **Operating Altitude:** 0 to 2952 ft, (0-900m)

Electrical

- **PSU:** 100~240VAC, 50/60Hz, 750W*2 (1+1)
- **Power consumption:** Idle Mode: 226W
Normal Mode: 242W

Safety

- **UL, cUL, CB, CCC**

EMC

- **CE, FCC, 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

- **T4048-IX8 (1X8UZZ0000) Front to Back, with Rail Kit**
- **T4048-IX8 (1X8UZZ0001) 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)**

QCT authorized partner

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