QuantaMesh BMS T4048-IX8A

The Next Wave Enterprise Data Center 25G Switch

- 48 X 25G SFP28 + 8 X 100G QSFP28
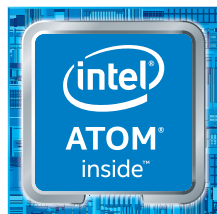- x86 CPU Support
- ONIE Pre-loaded
- ArcOS® Ready

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.

QCT BMS T4048-IX8A supports 48 SFP28 and 8 QSFP28 (10/25/40/50/100 GbE speed) ports and in a compact rack unit size. By levering merchant silicon chip, T4048-IX8A 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-IX8A also improves the performance for larger packet buffers adn reduced latency. With ONIE (Open Network Installation Environment) pre-loaded T4048-IX8A 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.

Powered by Intel Atom® processors

Physical Ports
- **Port configuration:** 48 SFP28 (10/25GbE) and 8 QSFP28 ports (10/40 or 25/50/100GbE)
- **Management Port:** 1 RJ-45 out-of-band management port (10/100/1000M)
- **Console Port:** 1 (RJ-45)
- **USB:** USB 2.0

Performance
- **Switching capacity:** 4Tbps
- **Maximum forwarding rate:** 1B PPS
- **MAC:** Unified Forwarding Table to dynamically allocate the L2/L3 tables

Major Components
- **ASIC:** Broadcom Trident3 BCM56770
- **CPU:** Intel® Denverton C3558
- **Memory:** 8GB DDR4
- **Flash:** 32MB
- **Storage:** 128G SSD M.2

Airflow
- **Front to Back, Back to Front**

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

Environmental Specifications
- **Operating temperature:** 0°C to 45°C @sea level (F-B, B-F)
- **Operating humidity:** 90% maximum relative humidity
- **Operating Altitude:** 0 to 2952 ft, (0-900m)

Electrical
- **Power requirement:** 100~240V AC, 50/60Hz, -40~-56V DC
- **Power consumption:** 375W

Safety
- **UL, cUL, CB**

EMC
- **CE, FCC, ICES**

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

Supported Optics and Cables
Cables:
- **40G Direct Attach Copper Cable (QSFP+ to QSFP+):** 1m, 3m, and 5m
- **100G Direct Attach Copper Cable (QSFP28 to QSFP28):** 0.5m~5m
- **40G Active Optical Cable (QSFP+, 850nm, MMF):** 7m and 10m
- **100G Active Optical Cable (QSFP28, 850nm, MMF):** 1m, 3m, 5m, and 10m

Break-out Cables:
- **40G Direct Attach Copper Cable (QSFP+ to 4 SFP+):** 1m, 3m, and 5m
- **100G Direct Attach Copper Cable (QSFP28 to 4 SFP28):** 3m

Optics:
- **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, LC, 1310nm, SMF):** 100GBASE-LR4
- **100G Optic (QSFP28, LC, 1310nm, SMF):** 100GBASE-DR1
- **100G Optic (QSFP28, LC, 1310nm, SMF):** 100GBASE-FR1
- **100G Optic (QSFP28, LC, 1271~1331nm, SMF):** 100GBASE-CWDM4

Ordering Information
- **T4048-IX8A** (1IX8UZZ000Y) (Front to Back, AC)
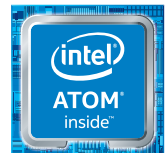- **T4048-IX8A** (1IX8UZZ0010) (Back to Front, AC)

Found at: www.QCT.io/wheretobuy

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QCT authorized partner

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