

QuantaMesh BMS T4048-IX2



New Generation 25G ToR Switch for Datacenter and Cloud Computing

- ONIE Pre-loaded
- x86 CPU Board Support
- SDN Ready
- BMC Build-in
- Cumulus Linux Ready

Datacenter networking is evolving fast from 10G and 40G to 25G and 100G. Also, hardware and software are now independent, enabling the networking software of your choice to run atop the hardware you choose. Quanta Cloud Technology (QCT) provides a series of Bare Metal Switches under the QuantaMesh BMS brand to help your company embrace the big changes facing your datacenter. QuantaMesh BMS supports Gigabit to 100G Ethernet specifications. For applications such as high performance, high availability, fast scale out, low latency performance and continuous serviceability, QuantaMesh BMS is the best choice for your datacenter.

QuantaMesh T4048-IX2 supports 48 SFP28 and 8 QSFP28 (10/40 or 25/50/100GbE speed) ports in a compact rack unit size. By leveraging merchant silicon chipsets, the T4048-IX2 is a high-performance, high-density Ethernet switch with an affordable price for the deployment of datacenter infrastructure. With ONIE (Open Network Installation Environment) pre-loaded, the T4048-IX2 can be used with multiple operating system that supports ONIE installers to achieve agile installation and fast response when demand changes.

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter 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 datacenter 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

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QCT authorized partner

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Physical ports

- **Port configuration:** 48 SFP28 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)
- **USB:** USB 2.0

CPU Board 1

- **CPU:** Intel Rangeley
- **Memory:** 8GB DDR3/ECC
- **Storage:** 32GB SSD

Performance

- **MAC:** Unified Forwarding Table to dynamically allocate the L2/ L3 tables
- **Switching capacity:** 4Tbps
- **Maximum forwarding rate:** Line Rate Performance
- **Latency:** <450ns

High Availability

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

Mechanical

- **Dimension (HxWxD):** 44x440x508mm
- **Weight:** 9.16kg/20.2lbs (NET)

Environmental Specifications

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

Electrical

- **Power requirement:**
100~240VAC, 50/60Hz
- **Power consumption:** 312 watts
- **Safety:** UL, cUL, CB
- **EMC:** CE, FCC, VCCI, 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-IX2 (1IX2UZZ0STM) Front to Back, with Rail Kit
T4048-IX2 (1IX2UZZ0STN) Back to Front, with Rail Kit
T4048-IX2 (1IX2UZZ0STP) Front to Back, with Rail Kit/CL OS pre-loaded, US only
T4048-IX2 (1IX2UZZ0STQ) Back to Front, with Rail Kit/CL OS pre-loaded, US only
PSU - Red (1HY9ZZZ071Y) (F-2-B, AC, 750W)
PSU - Blue (1HY9ZZZ0720) (B-2-F, AC, 750W)
FAN Module (1HY9ZZZ0721) (F-2-B)
FAN Module (1HY9ZZZ0722) (B-2-F)