QuantaMesh BMS T7032-IX1

New Generation 100G ToR/Spine Switch for Datacenter and Cloud Computing

- ONIE Pre-loaded
- x86 CPU Board Support
- SDN Ready
- 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 T7032-IX1 supports 32 QSFP28 (10/40 or 25/50/100GbE speed) ports in a compact rack unit size. By leveraging merchant silicon chipsets, the T7032-IX1 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 T7032-IX1 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.

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 Technolog 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

Physical ports

- **Port configuration:** 32 QSFP28 ports support for 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:** 6.4Tbps
- **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:** 9.27kg/20.4lbs (NET)

Environmental Specifications

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

Electrical

- **Power requirement:**
  100~240VAC, 50/60Hz
- **Power consumption:** 378 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
AOC cable (QSFP+, 850nm, MMF): 7m and 10m
AOC cable (QSFP28, 850m, MMF): 1m, 3m, 5m, and 10m
40G optic (QSFP+, MPO, 850nm, MMF): 10GBASE-SR4
40G optic (QSFP+, LC, 1310nm, SMF): 10GBASE-LR4
100G optic (QSFP28, MPO, 850nm, MMF): 10GBASE-SR4
100G optic (QSFP28, MPO, 1310nm, SMF): 10GBASE-PSM4
100G optic (QSFP28, LC, 1310nm, SMF): 10GBASE-LR4

Order Information

T7032-IX1 (1IX1UZZ0STI) Front to Back, with Rail Kit
T7032-IX1 (1IX1UZZ0STJ) Back to Front, with Rail Kit
T7032-IX1 (1IX1UZZ0STK) Front to Back, with Rail Kit/CL OS pre-loaded, US only
T7032-IX1 (1IX1UZZ0STL) 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)