QuantaMesh
BMS T9032-IX9

The 400G switch for Hyper Scale Data Center

- 32-port 400G QSFP-DD
- x86 CPU Board
- PAM4 Based Switch
- ONIE Pre-loaded

The next generation of network, 5G, is driven by growing number of network devices. With increasing bandwidth demands from emerging 5G, T9032-IX9 is designed to address hyper-scale cloud environments.

QuantaMesh T9032-IX9 is the first 400G capable switch in the QuantaMesh BMS product line which is based on 50 Gbps PAM4 Serial-Deserializers (SerDes) technology. T9032-IX9 is a 32 ports QSFPDD switch,each port supports 400/200/100GbE or via breakout cables 4 x 100 GbE or 4 x 25 GbE.

T9032-IX9 offers 700ns low latency at high power efficiency, and a 64MB large packet buffer, allowing heavily loaded network to be absorbed. By levering merchant silicon chip, T9032-IX9 is allowed to perform high-speed, low- latency with advanced features such as smart table, dynamic load balancing, and VxLAN/RIOT support.

High Availability
- 1+1 hot-swappable power supplies
- 5+1 redundant, hot swappable fan modules
- Color coded fan module to indicate airflow direction
- ONIE pre-loaded to support open source

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® Xeon® processor

Found at: www.QCT.io/wheretobuy

Physical Ports
· **Port configuration:** 32 QSFP-DD ports support for 400/200/100GbE
· **Management Port:** 1 RJ-45 out-of-band management port (10/100/1000M)
· **Console Port:** 1 RJ-45 console port
· **USB:** 1 USB 2.0 port

Performance
· **Switching capacity:** 25.6Tbps
· **Maximum forwarding rate:** 8B PPS
· **Latency:** 700 ns
· **MAC:** 8K to 64K

Major Components
· **ASIC:** Broadcom Tomahawk3 BCM56980
· **CPU:** CPU: Intel Broadwell DE D-1527, TPM 2.0
· **Memory:** 32GB DDR4 SDRAM
· **Storage:** 128GB M.2
· **Packet buffer:** 64MB

High Availability
· **Redundant power supply:** 1+1
· **Hot-swappable fan tray:** 5+1

Airflow
· **Front to Back**

Mechanical
· **Dimension (HxWxD):** 43.2x440x620mm
· **Weight:** 13.37kg(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:** 100~240V AC, 50/60Hz
                          -40~-56V DC, 1600W*2 (1+1)

Safety
· **UL, cUL, CB, CCC, VCCI**

EMC
· **CE, FCC, VCCI, CCC**

Supported Optics and Cables
· **Cables:**
  - 100G Direct Attach Copper Cable (QSFP28 to QSFP28): 0.5m~5m
  - 400G Direct Attach Copper Cable (QSFP-DD to QSFP-DD): 0.5m~3m
  - 400G Active Copper Cable (QSFP-DD to QSFP-DD): 0.5m~3m
  - 100G Active Optical Cable (QSFP28, 850nm, MMF): 0.5m~10m
  - 400G Active Optical Cable (QSFP-DD, 850nm, MMF): 0.5m~3m
  - 400G Active Electrical Cable (QSFP-DD to QSFP-DD): 3m
· **Break-out Cable:**
  - 100G Direct Attach Copper fan-out Cables (QSFP28 to 4 SFP28)
  - 400G Direct Attach Copper fan-out Cables (QSFP-DD+ to 4 QSFP28)
  - 400G Active Copper fan-out Cable (QSFP-DD+ to 4 QSFP28)
  - 100G Active Optical fan-out Cable (QSFP28 to 4 SFP28)
  - 400G Active Optical fan-out Cable (QSFP-DD+ to 4 QSFP28)
· **Optics:**
  - 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
  - 400G Optic (QSFP-DD, MPO, 850nm, MMF): 400GBASE-SR8
  - 400G Optic (QSFP-DD LC, 1273.54~1309.14nm, SMF): 400GBASE-LR8
  - 400G Optic (QSFP-DD, MPO, 1310nm, SMF): 400GBASE-DR4
  - 400G Optic (QSFP-DD, LC, 1271~1331nm, SMF): 400GBASE-FR4

Ordering Information
· **T9032-IX9** (1IX9UZZ0000) (Front to Back, AC, R16*2)

Powered by Intel® Xeon® processors

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 株式會社
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