

# QuantaMesh BMS T9032-IX9



## The 400G switch for Hyper Scale Data Center

- 32-port 400G QSFP-DD
- x86 CPU Board
- BMC Built-in
- SONiC Ready

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. It is equipped with BMC in a 1RU form factor with an overall throughput of 12.8Tbps.

T9032-IX9 offers 700ns low latency at high power efficiency, and a 64MB large packet buffer, allowing heavily loaded network to be absorbed. By leveraging 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.

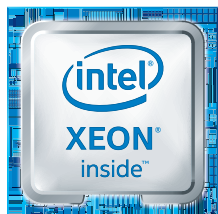
### High Availability

- 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.



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QCT authorized partner

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#### 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:** Intel x86
- **Memory:** 32GB DDR4 SDRAM
- **Storage:** 128GB M.2
- **Packet buffer:** 64MB

#### BMC

- **IPMI:** v1.5/v2.0 compliance
- **Serial over LAN**
- **SNMP**
- **SMASH**
- **Health status and hardware monitoring**
- **Event log**
- **PEF and PET**
- **Chassis management**
- **Watchdog and system re-start**

#### High Availability

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

#### 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:** 100~240VAC, 50/60Hz
- **Power consumption:** 1600W

#### 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
- **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

#### Order Information

- **T9032-IX9 (1IX9UZZ0000) BDE-QCT(C2.2G) ACFB R16\*2**



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