

# QuantaMesh BMS T7080-IXA



## Networking Router for Carrier Networks and Service Providers

- 80 x 100G QSFP28
- ArcOS® Ready
- x86 CPU Board
- ONIE Pre-loaded

QCT QuantaMesh T7080-IXA is an open core router platform that supports 80 100GbE ports in a compact 2U form factor. In a total bandwidth of 8 Terabits per second, IXA offers a high-density solution for core-layer deployments in the central office. Equipped with two Broadcom Jericho 2 BCM88690 chips, the QCT QuantaMesh T7080-IXA is rated at 4B PPS processing and includes a 16GB deep packet buffer with HBM. With deep buffer and large table size, IXA enables lossless forwarding with high-density. The telemetry features enable IXA to operate network traffic more efficiently in the core-layer of networks.

### High Availability

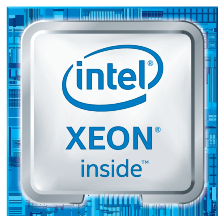
The QuantaMesh BMS IXA is purpose-built for carrier network. The key features from both hardware and software perspectives include:

- 4B PPS packet processing
- Hierarchical Traffic Management with Deep Buffer
- 128K queues
- 16GB deep packet buffer using HBM
- Real-time telemetry and analysis
- BMC supported
- Compact 2RU form factor
- Redundant PSUs and Fans

### 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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#### Physical Ports

- **Port configuration:** 80 100G QSFP28 ports
- **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:** 16Tbps
- **Maximum forwarding rate:** 4B PPS
- **MAC:** Unified Forwarding Table to dynamically allocate the L2/L3 tables

#### Major Components

- **ASIC:** Broadcom Jericho2 BCM88690\*2
- **Packet buffer:** 16GB
- **CPU:** Intel Broadwell DE D-1548, TPM 2.0
- **Memory:** 16GB\*2 SO-DIMM DDR4
- **Flash:** 16MB\*2
- **Storage:** 128G SSD M.2

#### Airflow

- **Front to Back**

#### Mechanical

- **Dimension (HxWxD):** 86.5x440x620 mm
- **Weight:** 26.49KG(NET)

#### Environmental Specifications

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

#### Electrical

- **PSU:** 100~240V AC, 50/60Hz  
40~-56V DC, 1600W\*4 (2+2)
- **Power consumption:** Idle Mode: 822W  
Normal Mode: 987W

#### Safety

- **UL, cUL, CB**

#### EMC

- **CE, FCC**

#### 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

- **T7080-IXA (1IXAUZZ0000)** ( Front to Back, AC)
- **T7080-IXA (1IXAUZZ000Q)** (Front to Back, DC)

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