

# QuantaMesh BMS T3048-LY8



## A Powerful Top-of-Rack Switch for Datacenter and Cloud Computing

- ONIE Pre-loaded
- x86 CPU Board Support
- Ubuntu Compliant
- SDN Ready

Datacenter networks are facing a major paradigm shift toward the disaggregation of software and hardware. This move, combined with the benefits of software-defined networking (SDN) allows network administrators respond quickly to changing business requirements at a lower capital cost as well as reducing the network operations complexity.

QuantaMesh BMS products offer higher performance, increased availability, low latency and better serviceability. QuantaMesh T3048-LY8 supports 48 SFP+ and up to 6 QSFP+ ports in a compact 1U size. By leveraging the new generation merchant silicon chips, T3048-LY8 is a high performance high density Ethernet switch with an affordable price for the deployment of data center infrastructure. Moreover, the CPU board design of T3048-LY8 provides option for 3rd party software to choose. Finally, with ONIE (Open Network Installation Environment) pre-loaded, it provides the flexibility and allows choice of network operating system supported by different software vendors. This provides agile installation process and faster response for the changing business demand.

### About QCT

QCT (Quanta Cloud Technology) is a global datacenter solution provider extending the power of hyperscale datacenter design in standard and open SKUs to all datacenter customers. Product lines include servers, storage, network switches, integrated rack systems and cloud solutions, all delivering hyperscale efficiency, scalability, reliability, manageability, serviceability and optimized performance for each workload. QCT offers a full spectrum of datacenter products and services from engineering, integration and optimization to global supply chain support, all under one roof. The parent of QCT is Quanta Computer Inc., a Fortune Global 500 technology engineering and manufacturing company.

### Physical ports

- **Port configuration:** 48 1/10GbE SFP+ and 6 40GbE QSFP+ ports
- **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:** Freescale P2020
- **Memory:** 2GB DDR3/ECC
- **Flash:** 128MB
- **Storage:** 8GB Micro SD

### CPU Board 2

- **CPU:** Intel Rangeley
- **Memory:** 4GB DDR3/ECC
- **Storage:** 32GB SSD

### Performance

- **MAC:** Unified Forwarding Table to dynamically allocate the L2/ L3 tables
- **Switching capacity:** 1440Gbps
- **Maximum forwarding rate:** 1071Mpps
- **Latency:** <600ns

### High Availability

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

### Mechanical

- **Dimension (HxWxD):** 44x435x508mm
- **Weight:** P2020: 9.13kg/20.111lbs (NET)  
Rangeley: 9.02kg/ 19.87lbs (NET)

### Environmental Specifications

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

### Electrical

- **Power requirement:** 100~240VAC, 50/60Hz, -40~56V DC
- **Power consumption:** 215 watts (L2 64B line rate; 10G-SR optics, 100% fan duty)
- **Safety:** UL, cUL, CB
- **EMC:** CE, FCC

### RoHS

- **Reduction of Hazardous Substances (RoHS) 6**

Get a quote: [www.QuantaQCT.com](http://www.QuantaQCT.com)

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QCT authorized partner

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