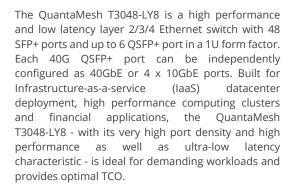
QuantaMesh T3048-LY8

A Powerful Spine/Leaf Switch for Datacenter and Cloud Computing



Automation

With the rapid adoption of cloud computing and the proliferation of big data and parallel calculations, the need for datacenter network devices is growing exponentially, making netowrk automation a critical factor. Supporting auto installation, QuantaMesh T3048-LY8 facilities the easy deployment and build-up of mass datacenter laaS.

Virtualization

Network virtualization is becoming an important topic of datacenters. QuantaMesh T3048-LY8 offers a hardware-based VXLAN feature to support virtual machine mobility. Not limited by 4K VLANs, VXLAN enables network scale out across L3 subnets and can support up to 16.7M possible virtual networks.

High Availability

The QuantaMesh T3048-LY8 is designed for high availability from both hardware and software perspectives. The key features include:

- 1+1 hot-swappable power supplies
- 2+1 hot-swappable fans
- Out-of-band management support
- Up to 48 paths ECMP routing for load balancing and redundancy
- Multi-chassis Link Aggregation





- VXLAN/NVGRE
- MLAG, OSPF, BGP4, & ECMP
- Network Automation

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.

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QuantaMesh T3048-LY8

Physical ports

- · Port configuration:
- 48 1/10GbE SFP+ and 6 QSFP+ ports
- · Management Port:
- Out-of-band management port (RJ-45, 10/100/1000Base-T)
- · Console Port: 1 (RJ-45)
- **USB:** 1 (v2.0)

Performance

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

CPU Board

- · CPU: Freescale P2020
- · Memory: 2GB DDR3/ECC
- · Flash: 128MB
- · Storage: 8GB Micro SD

Layer 2 Features

- · Switching Mode: Store-and-Forward
- · Spanning Tree:
- 802.1w
- 802.1s
- Auto Edge
- · VLAN: - IEEE 802.1Q Tagged Base
- Port-Based
- QinQ (802.1ad)
- · Storm Control:
- Broadcast
- Unknown Multicast
- DLF (Unknown Unicast)
- · IGMP Snooping:
- v1/v2/v3
- v1/v2 Querier
- Immediate Leave
- · Link Aggregation: - 802.3ad with LACP
- Static Trunk
- Unicast/Multicast Traffic Balance over Trunking Port
- · Link State
- · Port Backup
- · Error-Disable Recovery

QoS Features

- · Scheduling for priority queue:
- WRR, Strict, Hybrid
- · COS: 802.1p, IP TOS precedence, DSCP
- · DiffServ
- · iSCSI optimization

Security Features

- · static and dynamic port security (MAC-based)
- · 802.1x:
- Port-based
- MAC-based
- Auto VLAN assignment

- Guest VLAN
- Unauthenticated VLAN
- · Access Control List: L2/L3/L4
- · IPv6 ACL: L3/L4
- · RADIUS: Authentication, Accounting
- · TACACS+: Authentication
- · SSH 1.5/V2.0
- · User name and password:
- Local Authentication
- Remote Authentication via RADIUS/TACACS+,
- · Management IP filtering:
- SNMP
- Telnet
- SSH
- · IP Source Guard
- · Dynamic ARP inspection (DAI)
- · DHCP snooping
- · Control Plane Policing / CoPP

Laver 3 Features

- · IP Multinetting/CIDR
- · /31 subnets
- · Proxy ARP · IRDP
- · Static route: IPv4 , IPv6
- · OSPF
- · ECMP
- · BGP4
- · IGMP v1/v2/v3
- · PIM-DM/-SM
- VRRP
- · Policy-based routing

IPv6 L3 Features

- · OSPFv3
- · MLD v1/v2
- · PIM-DM6/-SM6

Data Center Features

- · Enhanced Transmission Selection (802.1Qaz)
- · Priority-based Flow Control (802.1Qbb)
- · DCBX: DCBX for ETS, DCBX for PFC
- · FCoE Initiation Protocol (FIP) snooping

· Open API: RESTful API

Management Features

- · Industrial command-line interface
- · CLI filtering
- · Telenet/SSH
- · Software download/upload: TFTP, FTP, SCP, SFTP
- · Configuration download/upload: TFTP, FTP, SCP, SFTP
- · Dual Image
- · SNMP v1/v2c/v3: Yes (read only)
- · SNMP inform
- · RMON 1, 2, 3, & 9
- · BOOTP: client/relay
- · DHCP client
- · DHCP relay
- · EVENT/Error log
- · DNS client
- · DNS relay
- · Remote PING
- · Traceroute
- · SNTPv4 · LLDP:
- 802.1ab
- 802.MED
- Potential error detection
- · UDLD
- · Port mirroring: SPAN, RSPAN, ERSPAN
- · sFlow v5
- · Email alerting: Yes (SMTP)
- · Auto Install

IPv6 Management

- · IPv4/IPv6 Dual Protocol Stack
- · ICMPv6
- · ICMPv6 Redirect
- · IPv6 Neighbor Discovery



- · Manual Configuration
- · DHCPv6: Yes (client)
- · SNMP over IPv6
- · SSH over IPv6 · IPv6 Telnet Support
- · IPv6 DNS Resolver
- · IPv6 RADIUS Support
- · IPv6 TACACS+ Support
- · IPv6 Syslog Support
- · IPv6 SNTP Support
- · IPv6 TFTP Support **High Availability**

· Redundant power supply: 1+1

- · Hot-swappable fan tray: N+1
- · Multi-chassis LAG

Virtualization Features

- · VXLAN
- · NVGRE

Mechanical

- · Dimension (HxWxD): 44x435x508mm
- · Weight: 9.13kg/20.111lbs (NET)

Environmental Specifications

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

Electrical

- · Power requirement:
- 100-127VAC; 200-240VAC, 50/60Hz
- · Power consumption: 215 watts
- (L2 64B line rate; 10G-SR optics, 100% fan duty)

Safety

· UL, cUL, CB

EMC

RoHS

· CE, FCC, VCCI, CCC

· Reduction of Hazardous Substances (RoHS) 6

- **Supported Optics and Cables** · DAC cable (SFP+): 0.5m, 1m, 1.5m, 2m, 2.5m, 3m,
- · AOC cable (SFP+, 850nm, MMF): 1m, 3m, 7m, 10m,
- 20m, and 100m
- · DAC cable (QSFP+): 1m, 3m, and 5m
- · DAC cable (QSFP+, fan-out): 1m, 3m, and 5m · AOC cable (QSFP+, 850nm, MMF): 7m, 10m, and 20m
- · 10G optic (SFP+, LC, 850nm, MMF): 10GBASE-SR optic
- · 10G optic (SFP+, LC, 1310nm, SMF): 10GBASE-LR optic · 40G optic (QSFP+, MPO, 850nm, MMF): 10GBASE-SR4

· 40G optic (QSFP+, LC, 1310nm, SMF): 10GBASE-LR4

- **Order Information**
- · T3048-LY8 (1LY8BZZ0STH) (F-2-B, AC, P2020)
- · T3048-LY8 (1LY8BZZ0STI) (B-2-F, AC, P2020) · PSU - Red (1HY9ZZZ0336) (F-2-B, AC, 750W)
- · PSU Blue (1HY9ZZZ0337) (B-2-F, AC, 750W) · FAN Module (1HY9ZZZ022X) (F-2-B, Red) · FAN Module (1HY9ZZZ022Y) (B-2-F, Blue)



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