

QuantaMesh T1048-LB9

1G/10G Datacenter
& Enterprise-Class
Ethernet switch



The QuantaMesh T1048-LB9 is a high performance layer 2/3/4 Ethernet switch with 48 10Base-T/100Base-TX/1000Base-T ports and 4 dual speed 1GbE/10GbE SFP+ ports in a compact rack unit size.

Simplicity

The QuantaMesh T1048-LB9 can be managed through an industry standard command-line interface (CLI) which reduces training and operating costs. The QuantaMesh T1048-LB9 also supports Simple Network Management Protocol (SNMP) both from standard MIB and private MIB for network administrator to easily configure, monitor, and manage operation remotely. The Auto-Installation feature implemented in the QuantaMesh T1048-LB9 helps centralized management to simplify deployment of a truly plug-and-play experience. With the evolution from IPv4 to IPv6, the QuantaMesh T1048-LB9 is a IPv6 integrated management device.

High Availability

The QuantaMesh T1048-LB9 is designed for high availability from both hardware and software perspective. The key features include:

- 1+1 hot-swappable power supplies
- Out-of-band management supported
- 802.1w, and 802.1s supported
- Up to 8 ports per link aggregation group (LACP) and up to 64 groups
- Up to 32 paths ECMP routing for load balancing and redundancy
- Virtual Router Redundancy Protocol supported
- Multi-chassis Link Aggregation

Advanced IPv4 and IPv6 routing

The QuantaMesh T1048-LB9 is a fully layer 2 and layer 3 routing switch that supports advanced IPv4 and IPv6 routing features such as OSPF, OSPFv3, BGP4 and ECMP. The multicast routing features for IGMP v1/v2/v3, PIM-DM/SM, MLD v1/v2 and PIM-DM6/SM6 are all supported in the QuantaMesh T1048-LB9.

- MLAG, OSPF, BGP4, ECMP
- Network Automation

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter 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 datacenter 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

QuantaMesh T1048-LB9

Physical ports

- **Port configuration:** 48 10/100/1000BASE-T and 4 1/10Gbe SFP+ ports
- **Management Port:** Out-of-band management port (RJ-45, 10/100/1000Base-T)
- **Console Port:** 1 (RJ-45)

Performance

- **Switching capacity:** 176Gbps
- **Maximum forwarding rate:** 131Mpps
- **MAC:** 32K

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
 - LACP Fallback
- **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+, AAA
- **Management IP filtering:**
 - SNMP
 - Telnet
 - SSH
- **IP Source Guard**
- **Dynamic ARP inspection (DAI)**
- **DHCP snooping**
- **Control Plane Policing / CoPP**
- **Service Prohibit Access**

Layer 3 Features

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

IPv6 L3 Features

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

SDN

- **OpEN API:** RESTful API

Management Features

- **Industrial command-line interface**
 - **CLI filtering**
 - **Telnet/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
 - **sFlow v5**
 - **Email alerting:** Yes (SMTP)
 - **Auto Install**
- ## IPv6 Management
- **IPv4/IPv6 Dual Protocol Stack**
 - **ICMPv6**
 - **ICMPv6 Redirect**
 - **IPv6 Neighbor Discovery**

- **Stateless Autoconfiguration**
- **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
- **Multi-chassis LAG**

Mechanical

- **Dimension (HxWxD):** 42.8x435x393mm
- **Weight:** 7.15kg/ 15.76lbs (NET)

Environmental Specifications

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

Electrical

- **Power requirement:**
 - 100~240VAC, 50/60Hz
- **Power consumption:** 95 watts
 - (L2 64B line rate; 10G-SR optics, 100% fan duty)

Safety

- **UL, cUL, CB, BSMI, CCC**

EMC

- **CE, FCC, VCCI, MSIP, CCC, RCM, Anatel**

RoHS

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

Order Information

- **T1048-LB9 (1LB9BZZ000F) (F-2-B)**
- **T1048-LB9 (1LB9BZZ000G) (B-2-F)**
- **PSU - Blue (1HY9ZZZ0061) (F-2-B, AC, 470W)**
- **PSU - Green (1HY9ZZZ002P) (B-2-F, AC, 470W)**

All specifications and figures are subject to change without prior notice. Actual products may look different from the photos.

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