QuantaMesh T3040-LY3

A Powerful Top-of-Rack Switch for Datacenters and Cloud Computing

The QuantaMesh T3040-LY3 is a high performance layer 2/3/4 Ethernet switch with 40 100BASE-TX/1000BASE-T/10GBASE-T and 8 1/10GBASE-X SFP+ ports in a compact rack unit size. The 40 10GBASE-T ports are backwards compatible with 100/1000M Ethernet networks. The 8 SFP+ ports can aggregate bandwidth up to the core switch. With the energy saving requirements, the QuantaMesh T3040-LY3 is designed with high power efficiency to save OPEX.

- 10GBT
- MLAG, OSPF, BGP4, & ECMP
- Network Automation

Simplicity

The QuantaMesh T3040-LY3 can be managed through an industry standard command-line interface (CLI) which reduces training and operating costs. The QuantaMesh T3040-LY3 also supports Simple Network Management Protocol (SNMP) both from standard MIB and private MIB for easy configuration, monitoring, and management by the network administrator remotely. The Auto- Installation feature implemented in the QuantaMesh T3040-LY3 helps centralized management to simplify deployment of a truly plug-and-play experience. With the evolution from IPv4 to IPv6, the QuantaMesh T3040-LY3 is a IPv6 integrated management device.

High Availability

The QuantaMesh T3040-LY3 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

High-Performance L2/L3 access deployments

With the compact 1U form factor, high density 40 100BASE- TX/1000BASE-T/10GBASE-T and 8 1/10GBASE-X SFP+ ports in the front panel, front to back or back to front airflow design, the QuantaMesh T3040-LY3 is ideal for top- of-rack deployments in high-performance, highly demanding datacenters. The 960 gigabits per second switching capacity and 714Mpps forwarding rate with low power consumption make the QuantaMesh T3040-LY3 a powerful solution to aggregate high- performance servers in the datacenter.

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 T3040-LY3

Physical ports
- **Port configuration:** 40 100/1000/10GBT and 8 1/10GbE SFP+ ports
- **Management Port:** Out-of-band management port (RJ-45, 10/100/1000Base-T)
- **Console Port:** 1 (RJ-45)
- **USB:** 1 (v 2.0)

Performance
- **Switching capacity:** 960Gbps
- **Maximum forwarding rate:** 714Mpps
- **Latency:** <3us
- **MAC:** 128K

L2 Features
- **Switching mode:** store-and-forward
- **Spanning Tree:**
  - 802.1D, 802.1w
  - 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, and 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 and accounting
- **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**

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**

SDN
- **OpEN API:** RESTful API

Management Features
- **Industrial standard 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:** v2/v3
- **RMON 1, 2, 3, & 9:** Yes (read only)
- **BOOTP:** client/relay
- **DHCP client**
- **DHCP relay**
- **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**
- **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:** 7.9kg/17.42lbs (NET)

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

Electrical
- **Power requirement:** 100~240VAC, 50/60Hz
- **Power consumption:** 376 watts (L2 64B line rate; Cat 6A, 100% fan duty)

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

EMC
- **CE, FCC, VCCI, BSMI, CCC**

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

Supported Optics and Cables
- **1000BASE-T:** Cat 5e and Cat 6A (100m/330 ft)
- **10GBAE-T:** Cat 6A (100m/330ft)
- **DAC cable (QSFP+):** 1m, 3m, and 5m
- **DAC cable (QSFP+, fan-out):** 1m, 3m, and 5m

Order Information
- **T3040-LY3 (1LY3BZZ0ST8) (F-2-B, AC, P2020)**
- **T3040-LY3 (1LY3BZZ0ST9) (B-2-F, AC, P2020)**
- **PSU - Blue (1HY9ZZZ015H) (F-2-B, AC, 750W)**
- **PSU - Green (1HY9ZZZ015I) (B-2-F, AC, 750W)**