

TELCO SYSTEMS

TM-3308H



Carrier Ethernet/MPLS/IP SDN-Enabled NID

Telco Systems TM-3308H is a quad-technology premium demarcation device, combining Carrier Ethernet 2.0, MPLS, IP (Layer 3), and SDN (NETCONF/YANG) in a single compact platform. This integration delivers a cost-effective solution that provides operators with maximum flexibility to address current and future service scenarios. With advanced L2 and L3 features, MPLS transport support, and SDN

programmability, the TM-3308H enables service providers to deliver wholesale, business, and cloud connectivity with high performance and efficiency. Supporting both Ethernet and MPLS to the network edge without additional software costs, the device simplifies service delivery, reduces operational complexity, and ensures future-proof investment.

Highlights

Flexible Control of Traffic and Services

Advanced QoS, VLAN, and traffic management ensure precise control and guaranteed service performance.

L3 Support

Supports static routing and advanced L3 services, enabling seamless integration into IP/MPLS networks.

OAM Support

Comprehensive OAM tools for monitoring, fault detection, and performance assurance of Carrier Ethernet services.

SDN Support

NETCONF/YANG and future-ready programmability allow integration into SDN and NFV environments.

General Specifications

Dimensions (H x W x D) 1.75" (1RU) x 8.7" x 9.25" (44 mm x 221 mm x 235 mm)

Weight 2.42 lbs (1.1 kg)

Input Power 100-240VAC or 24/48VDC Regulatory Compliance

Operating Temperature TM-3308: 0°C to 50°C / 32°F to 122°F
TM-3308H: -40°C to 70°C / 40°F to 158°F

Humidity 5% to 95% non-condensing

Management Console, Telnet, SSHv2, RADIUS, TACACS+, SNMP v1/2/3, xFTP, NTP, DHCP client/server, and Zero Touch Provisioning

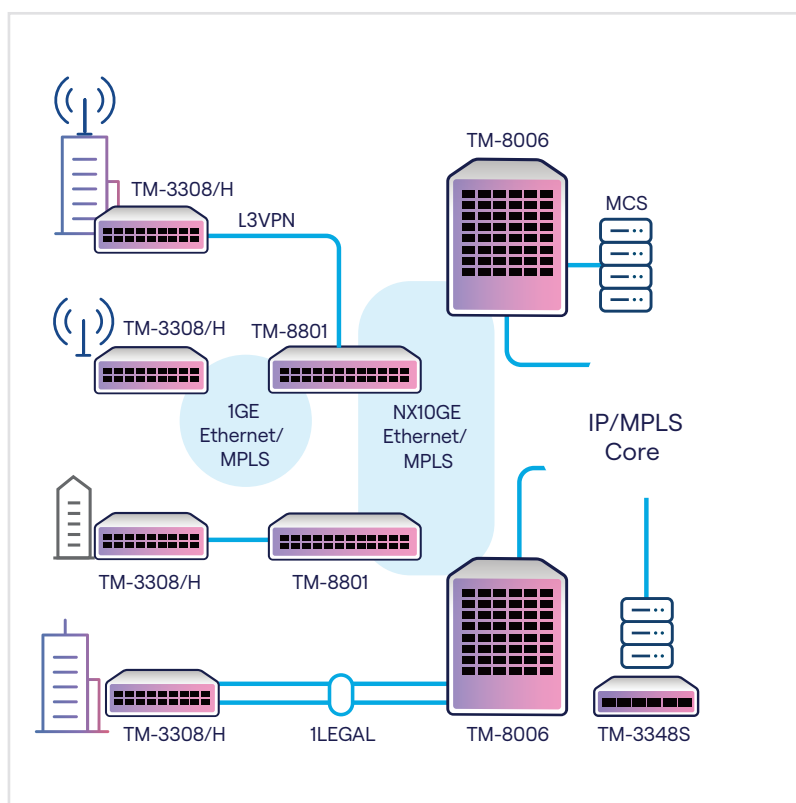


Capabilities

- Advanced QoS, VLAN, and traffic management for SLA compliance and reliable service delivery.
- Hardware-based Layer 3 forwarding with VRF, static routing, OSPF, and BGP for seamless IP/MPLS integration.
- Supports Carrier Ethernet 2.0 and MPLS transport services, extending VPWS, VPLS, and H-VPLS to the edge.
- Comprehensive OAM toolkit including IEEE 802.1ag CFM, ITU-T Y.1731, ITU-T Y.1564, and RFC 2544 for monitoring, testing, and rapid fault isolation.
- Compact 1RU design with 4 × 10/100/1000Base-Tx ports and 4 × dual-speed (100M/1G) fiber ports, combining high value with efficient form factor.
- Flexible power options with internal AC/DC and optional redundant supply for high availability.
- SDN/NFV-ready with NETCONF/YANG programmability, zero-touch provisioning, and full integration with Telco Systems EdgeGenie and third-party orchestrators.
- Supports IEEE 802.1q, 802.1ad (Q-in-Q), and advanced VLAN services for flexible network design and simplified service delivery.
- Enables both Ethernet-based and MPLS-based services without additional software costs, future-proofing operator investment.
- Ideal for wholesale and business providers to connect customer sites and cloud services with high performance and efficiency.

Key Applications

- MEF CE 2.0 type of services
- Business services – MTU or site NID
- SDN networks with NETCONF/YANG
- Multi-service multiplexing for different customers and services while ensuring service separation
- OAM monitored network for SLA assurance



Technical Specifications

Hardware Characteristics	4 × 100FX/1000BaseX SFP ports 4 × 10/100/1000BaseT RJ45 ports 1 x Console RJ45 port Non-blocking 8Gbps FD platform, 19" rack and wall-mounting options
Services	MEF Services: E-LINE, E-LAN, E-TREE, and E-ACCESS L2 Services: IEEE 802.1Q bridging, IEEE 802.1ad Q-in-Q and TLS MPLS Services: VPWS, VPLS and HVPLS MPLS Signaling: RSVP-TE, BGP, LDP/T-LDP and Static MPLS IP Services: VRF-Lite, DHCP client/server, VRRP IP Routing: Static Routing, OSPFv2, IS-IS and BGPv4
Resiliency	Sub-50ms ITU-T G.8032 R-APS, STP/RSTP/MSTP, Fast Ring, FRR, HVPLS dual homing, secondary LSP, Resilient Link, LAG (static/IEEE 802.3ad LACP/Multi-Chassis), redundant AC/DC power supply
Quality of Service	Service classification per port/EVC/flow single/dual rate limiting, hierarchical rate limit per EVC. Hierarchical SP, D WRR and per EVC / per port. Co hybrid scheduling and shaping, with 8 queues S marking and mapping per, flow control for congestion handling EVC
Multicast Management	IGMP snooping v1/v2/v3, IGMP proxy; multicast VLAN registration (MVR)
OAM	IEEE 802.3ah EFM, Hardware-based IEEE 802.1ag CFM, OAM over VPLS, MPLS Ping
Testing & Monitoring	Hardware-based ITU-T Y.1564 and RFC 2544 test head, loopback and service performance analyzer, MEF46 Latching Loopback controller & responder, ITU-T Y.1731 PM, SM and SLM support, per-port/ EVC/VLAN/COS, hardwarebased MAC Swap loopbacks, TWAMP w/auto-testing
Security	ACLs, RADIUS, SSHv2, SNMPv3, SFTP, port security, broad-cast storm prevention, secured access, ARP protection
Regulatory compliance	Europe: EMC DIRECTIVE 2014/30/EU, including EN 300386 NA: FCC 47 CFR Part 15B Class A (USA), ICES-003 Class A (Canada) Japan: VCCI Class A Australia/NZ: AS/NZS-CISPR 32 Class A
Environmental and Safety	Europe: LVD DIRECTIVE 2014/35/EU – EN 62368-1 RoHS DIRECTIVE 2011/65/EU, Directive (EU) 2015/863 NA: UL 62368-1/CAN.CSA 22.2 No. 62368-1 Class 1 Laser product safety (eye safety) IEC 60825-1

Ordering Information

Part Number	Description
TMC-3308-x	ethernet/MPLS/IP premium multi-purpose demarcation: 4 × 10/100/1000Base-T UNI/NNI, 4 × 100Base-FX/1000Base-X UNI/NNI, 1 x RJ-45 ASCII management console port; Internal AC power supply with optional external AC power supply for redundancy (orderable separately)
TMC-3308-2DC	Ethernet/MPLS/IP premium multi-purpose demarcation 4 × 10/100/1000Base-T UNI/NNI, 4 × 100Base-FX/1000Base-X UNI/NNI, 1 x RJ-45 ASCII management console port; internal DC power supply (24/48VDC), dual feed power supply
TMC-3X0-EXTPS-x	Optional, external redundant AC power supply
TMC-3308H-2DC	Ethernet/MPLS/IP premium multi-purpose demarcation: 4 × 10/100/1000Base-T UNI/NNI, 4 × 100Base-FX/1000Base-X UNI/NNI, 1 x RJ-45 ASCII management console port; internal DC power supply (24/48VDC), dual feed power supply and hardened temperature (-40°C to 70°C / -40°F to 158°F)

**Relevant for the TMC-3308H only

Experience the Power of Telco Systems T-Series: Invest in **TM-3308H** to boost your network.

Contact us at salesnetworks@batm.com or visit our website www.telco.com.