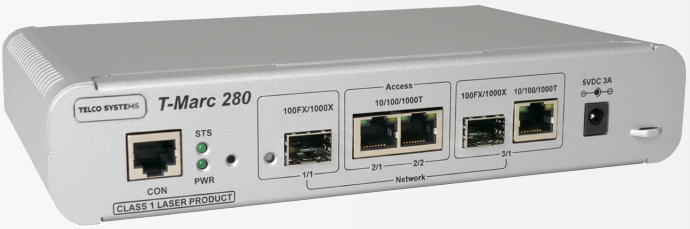
batm networks

TELCO SYSTEMS
TM-280



Compact Carrier Ethernet Demarcation for Cost-Optimized Access Networks

TM-280 is a compact, cost-effective Carrier Ethernet Network Interface Device (NID) designed for service demarcation at the network edge. As part of the T-Series portfolio, it enables service providers to deliver managed, SLA-assured Ethernet services over copper and fiber with minimal footprint and operational complexity.

Built for converged business services, the TM-280 supports advanced Layer 2 capabilities, multi-layer OAM, and hardware-based service testing, making it ideal for business Ethernet, FTTx, and industrial access deployments where simplicity, reliability, and cost efficiency are critical.

Highlights

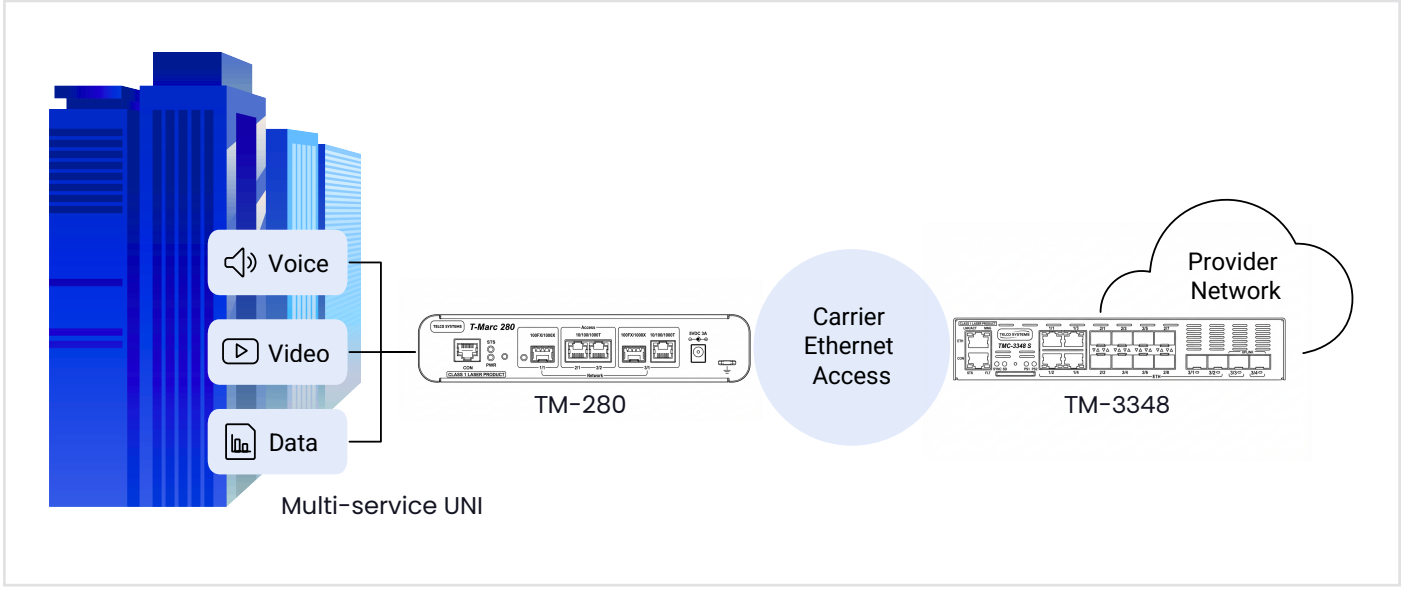
Converged Service Delivery	Supports delivery of voice, video, and data services over a single Ethernet access device.
Advanced Service Assurance	Multi-layer OAM and embedded service testing ensure SLA validation and performance visibility.
Operational Efficiency	Remote monitoring, testing, and fault isolation capabilities reduce operational overhead and truck rolls.
Traffic Control & Prioritization	Enables bandwidth profiles and traffic classes to control how subscriber traffic is handled.
Standards-Based Interoperability	Designed for multi-vendor networks using industry-standard protocols and management interfaces.
Cost-Optimized Access Edge	Purpose-built architecture balances carrier-grade functionality with low CAPEX and OPEX.

General Specifications

Switching Capacity	4 Gbps full-duplex, non-blocking
Dimensions (H × W × D)	44 mm x 221 mm x 140.5 mm (1.73 in x 8.7 in x 5.51 in)
Weight	0.6 kg (2.42 lbs)
Form Factor	Compact 1RU
Mounting Options	Desktop, rack, or wall mounting
Power Input	5VDC @3A (max) with external power adaptor (AC to DC, DC to DC)
Operating Temperature	Standard 0°C to +40°C / Extended -20°C to +60°C / Storage -25°C to +80°C
Humidity	0% to 95% (non-condensing)

Features and Capabilities

Managed Ethernet Demarcation	-	Service termination and demarcation between provider and customer networks
Layer 2 Ethernet Services	-	IEEE 802.1Q bridging and IEEE 802.1ad Q-in-Q (TLS)
Multi-Layer OAM	-	IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731 for fault and performance monitoring
Embedded Test Head	-	ITU-T Y.1564 and RFC 2544 for service activation and verification
Traffic Engineering & QoS	-	Bandwidth profiles, traffic classes, and per-port rate control
Protected Uplinks	-	Redundant uplinks and link aggregation for service protection
Standards-Based Management	-	SNMP, CLI, and secure remote access for multi-vendor environments
Remote Fault Isolation	-	Line testing, loopbacks, and monitoring reduce truck rolls



Technical Specifications

Hardware Characteristics	2 × 10/100/1000Base-T ports 1 × 100Base-FX / 1000Base-X uplink port 1 × Combo port (10/100/1000Base-T or 100Base-FX / 1000Base-X) Non-blocking 4 Gbps full-duplex platform, 19" rack and wall-mounting options	
Services	All MEF services, IEEE 802.1Q bridging, IEEE 802.1ad Q-in-Q (TLS)	
Resiliency	Sub-50 ms ITU-T G.8031 Ethernet Protection Switching, ITU-T G.8032v2 R-APS xSTP, MSTP, Fast Ring, Resilient link, LAG (static / IEEE 802.3ad LACP)	
Quality of Service	Per-port rate limiting and shaping SP, WRR, and hybrid frame scheduling, CoS marking and mapping	
Multicast Management	IGMP snooping v1/v2IGMP Proxy, Multicast VLAN Registration (MVR)	
OAM	Hardware-based IEEE 802.3ah EFM, IEEE 802.1ag CFM	
Testing & Monitoring	Hardware-based ITU-T Y.1564 and RFC 2544 test head and service performance analyzer, In-service testing capabilities, ITU-T Y.1731 PM, SM, and SLM support, Per-port and service loopbacks	
Management	Console, Telnet, SSHv2, RADIUS, TACACS+, SNMP v1 / v2 / v3xFTP, NTP, DNS resolver, DHCP client, Zero-Touch provisioning	
Security	RADIUS, SSHv2, IEEE 802.1x, SNMPv3, SFTP, Port security, Broadcast storm prevention	
Regulatory compliance	**NA:**	EMI - FCC Part 15 Class B EMC - FCC 47CFR part15:2005, subpart B, Class B (US) EMC - ICES-003: 2004 Issue4, Class B (Canada) Safety - UL1950, cUL 60950 CSA 22.2 No. 950
Environmental and Safety	**Europe:**	EMI - EN55022 Class B Immunity - EN55024:1998+A1(01)+A2(03)
	Japan:	EMC - VCCI V-3/2006.04,Class B Safety - EN 60950 plus IECEE-CB-105a
	Australia/NZ:	EMC - AS/NZS CISPR 22: 2004, Class B EN300386 V1.3.3 : 2005 Safety - AS/NZS 60950.1 : 2003

Ordering Information

Part Number	Description
TMC-280-z	Managed Ethernet demarcation device with 2 × 10/100/1000Base-T ports, 1 × combo copper/fiber port, 1 × SFP uplink, and external power supply

Experience the Power of T-Series: TM-280 delivers compact, cost-optimized Carrier Ethernet demarcation with built-in service assurance and carrier-grade resiliency, designed to simplify access deployments while protecting SLAs.
Contact us at **salesnetworks@batm.com** or visit our website **www.telco.com** for more information.