

NEPTUNE NPT-1010

MANAGED PACKET TRANSPORT CPE

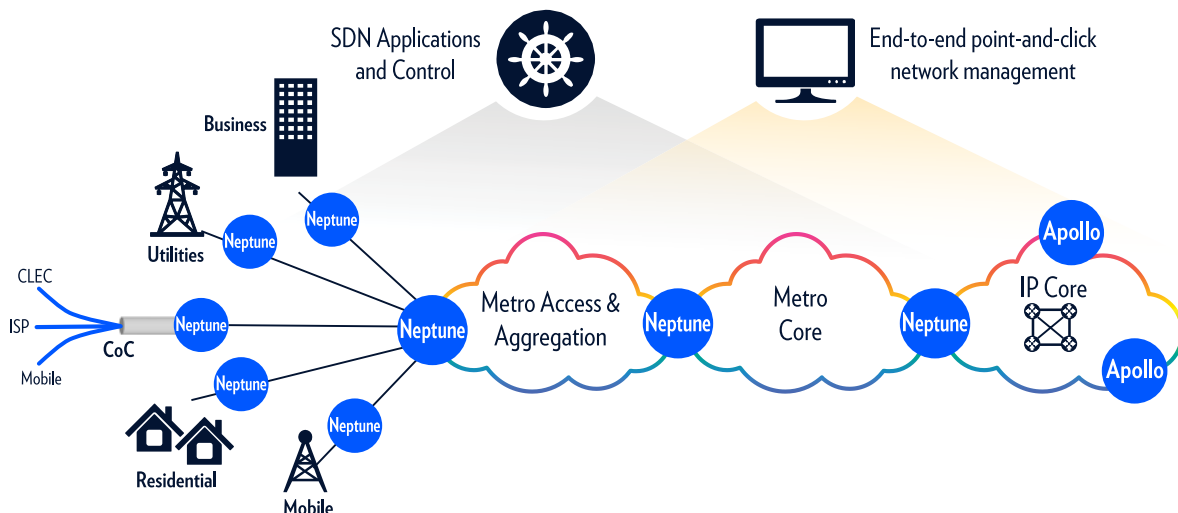


The NPT-1010 is an extremely compact managed packet transport CPE. A member of ECI's Neptune (NPT) product line, the NPT-1010 is optimized for customer premise and service provider demarcation points with only 1RU in height and up to 5 Gbps in capacity. The NPT-1010 supports smooth transition from TDM to packet by supporting both packet (Ethernet, MPLS-TP) services as well as TDM services using CES. To efficiently utilize the access infrastructure, services can be delivered over Ethernet or GPON. The Neptune product line streamlines end-to-end metro service delivery by combining carrier-grade service assurance, visibility, and control with packet efficiency and multiservice support. Neptune offers a powerful, flexible, and efficient E2E metro solution for high-performance services through convergence of Ethernet (MEF CE2.0 certified), MPLS-TP, OTN, WDM, and TDM. Neptune also supports NFV services and SDN applications, which are compulsory in today's challenging metro environment.



With a rich and robust feature set, the NPT-1010 is well-suited for a wide variety of applications and networking scenarios. These include mobile backhaul, wholesale services, residential multiplay, and business VPN connectivity services. Like all of ECI's transport products, NPT-1010 is managed by the unified multilayer LightSOFT® NMS.

<p>Unmatched multiservice TDM, Ethernet, MPLS-TP</p>	<p>Fully-managed CPE</p>	<p>Carrier-grade service assurance</p>	<p>Cost optimized compact and modular</p>
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Technical specifications

Packet	Switch: 5 Gbps Services: MEF CE2.0 (E-Line, E-LAN, E-Tree, E-Access) PN- and VPN-based Ethernet and IP, MPLS-TP Max. Interfaces: 8 x 10/100/1000BaseT with PoE+ 4 x 100/1000BaseT/X 4 x GPON ONU
TDM	Services: CES (SAToP, CESoP SN) Max. CES Interfaces: 8 x E1/T1
WDM	CWDM, DWDM
Timing and Synchronization	SyncE with ESMC, 1588v2, external timing 1PPS and TOD, internal stratum 3 clock (holdover state), primary and secondary sources (supports SSM bits), ACR, DCR, loop timing on SAToP, and SNTP
Protection and restoration	RSTP/MSTP, G.8032 Ethernet Ring Protection (ERP), MPLS-TP FRR, 1:1 Linear protection, PW Redundancy (PWR), multi segment-PW, IEEE 802.3ad Ethernet Link Aggregation (LAG) with LACP, Multi-chassis LAG (MC-LAG)
OAM	Ethernet OAM (IEEE802.3ah, IEEE 802.1ag and ITU-T Y.1731 PM), MPLS-TP OAM (G8113.2) (CC/AIS/RDI/LB/LT/DM), Bidirectional Forwarding Detection (BFD), RFC 2544 Generator, Y.1564 -Ethernet service activation (SLA)
Traffic management	Traffic classification (based on Port, VLAN, Port+VLAN, IEEE 802.1p and DSCP), diffserv based TM, network Connection Admission Control (CAC), 8 Classes of Service (CoS)
Topologies	Mesh, dual homing, multi-ring, ring, star, linear
Security	RADIUS (client authentication), SSH 2, SW integrity verification (SHA-2), SFTP, Access Control List (ACL), IEEE802.1x, control channel HMAC-256, public key authentication, port blocked as default
Management	LightSOFT® NMS, EMS-NPT, SNMPv2/v3, LCT, Muse™
Power over Ethernet (PoE+)	Up to 30W
Pluggable SFP support	Electrical, colored C/DWDM, non-colored bidirectional SFPs
Power input	-40 VDC to -72 VDC, 110 VAC to 230 VAC
Power dissipation	Typical: 30W
Operating temperature range	-40°C to +70°C (-40°F to 158°F)
Operating RH range	5% to 95%
Environmental standards	NEBS -GR-63 Core, GR-1089 Core, ETS 300 019-1-3 Class 3.3, ETS 300 019-2-3 Class 3.3, EN55022 radiation emissions (class A), IEEE 1613 (electric utility substations), IEC 61850-3 (electric utility substations), EN 61000-6-5 (Immunity for substations)
Safety	EN60950-1
EMC	EN 300 386
Physical dimensions	H x W x D: 1.7" x 8.8" x 10.4" / 44 x 223.5 x 263 mm

Specifications subject to change without notice

Contact us to find out how our ELASTIC networks can help your business grow



ABOUT ECI

ECI is a global provider of ELASTIC network solutions to CSPs, utilities as well as data center operators. Along with its long-standing, industry-proven packet-optical transport, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. With ECI, customers have the luxury of choosing a network that can be tailor-made to their needs today – while being flexible enough to evolve with the changing needs of tomorrow. For more information, visit us at www.ecitele.com