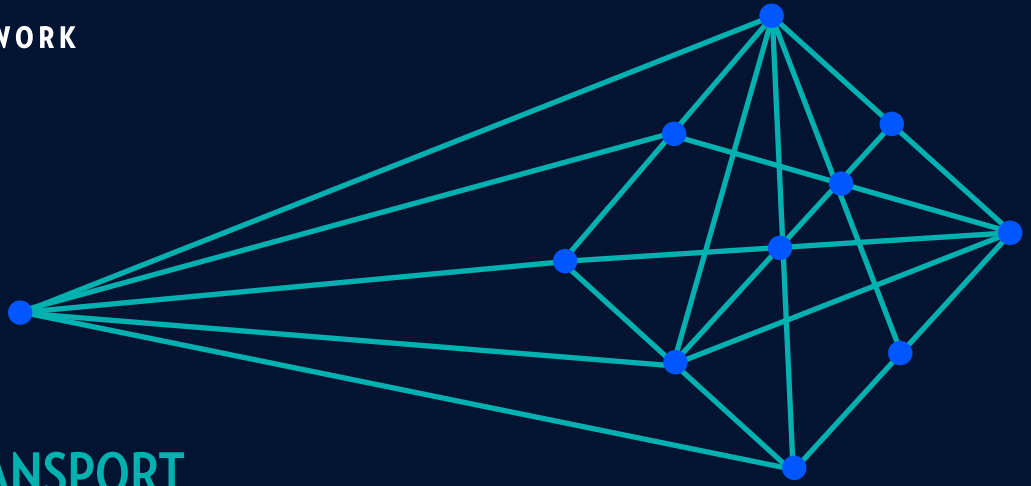


NEPTUNE NPT-1030

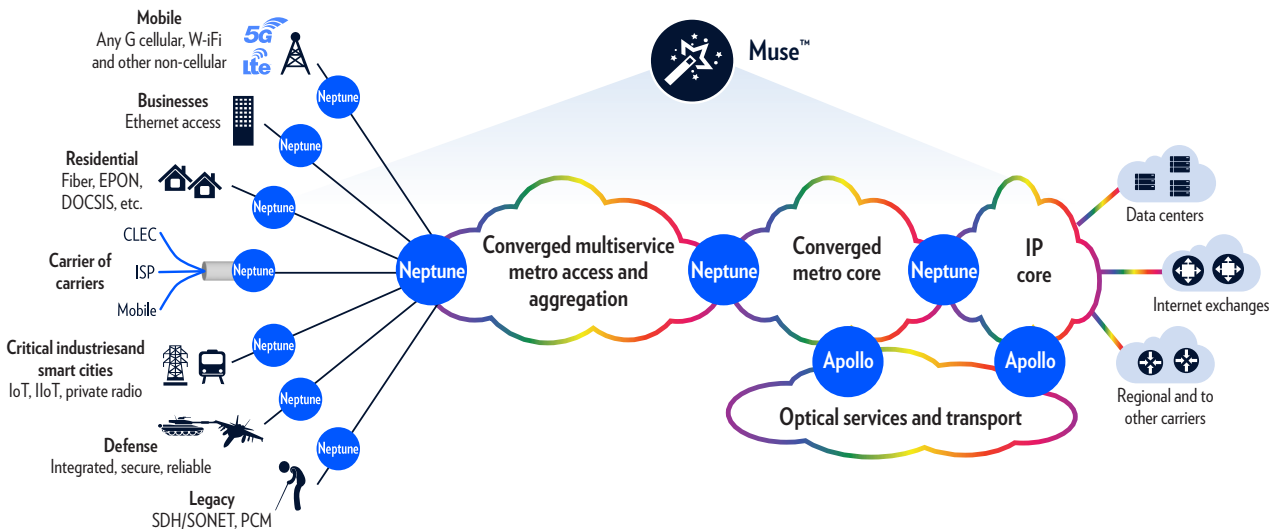
METRO ACCESS TRANSPORT FOR PACKET AND TDM



Netptune (NPT) is a family of carrier-class MPLS-based multiservice packet-optical transport platforms, offering best-in-class Carrier Ethernet and packet transport solutions for the metro. Neptune streamlines end-to-end metro service delivery by combining carrier-grade service assurance, visibility, and control, with packet efficiency and unparalleled L1 to L3 multiservice support. Neptune offers converged support for Ethernet, MPLS, OTN, and WDM to provide a powerful, flexible solution for high-performance services and Elastic MPLS. SDN and NFV capabilities allow Neptune to evolve to meet the rapidly-changing metro environment.



NPT-1030 is a compact, fully-redundant, modular, multiservice packet transport platform, which is 1RU in height and supports Ethernet, TDM, and MPLS-TP with a 60Gbps packet switch and a 15Gbps TDM matrix. Support for native TDM and TDM over CES/CEP make NPT-1030 ideal for operators looking for a modern-metro access packet platform on which to evolve their legacy TDM network. With such a rich and robust feature set, the NPT-1030 is well-suited for a wide variety of applications and networking scenarios. These include; CES for TDM migration, mobile backhaul, wholesale services, residential multiplay, business VPNs, and mission-critical service delivery. Like all ECI's transport products, NPT-1030 is managed by ECI's Muse™ software suite.



Technical specifications

Packet	Switch: 60 Gbps Services: MEF CE2.0 (E-Line, E-LAN, E-Tree, E-Access) PN and VPN based Ethernet and MPLS -TP, Ethernet over PDH (EoP) Ethernet over SDH (EoS) , MPLS over Transport (MoT), MPLS over Ethernet (MoE) Max. Interfaces: 12/8 x 100/1000 FX, 4 x 10GBE
TDM	Matrix: 15 Gbps with 4/3/1 connectivity (100% LO granularity) Services: Native TDM, CES (SAtOP , CESoPSN) Max. Native Interfaces: 5 x STM-16, 20 x STM-4, 20 x STM-1, 9 x DS3/E3, 189 x E1 Max. CES Interfaces: 12 x STM-1, 3 x STM-4
WDM	CWDM, DWDM, amplifiers
Timing and synchronization	SyncE with ESMC, 1588v2, Internal Stratum 3 clock (holdover state), Primary and secondary sources (supports SSM bits), ACR, DCR, loop timing on SAtOP, TDM bits (T3/T4)
Protection and restoration	HW redundancy for common units, IO Hardware protection (IOP), RSTP/MSTP, G.8032 Ethernet Ring Protection (ERPS), MPLS-TP FRR, Dual FRR, 1:1 Linear protection, PW Redundancy (PWR, IEEE 802.3ad Ethernet Link Aggregation(LAG) with LACP
OAM	Ethernet OAM (IEEE802.3AH, IEEE 802.1ag and ITU-T Y.1731 PM), LSP Ping, MPLS-TP OAM (G8113.2)(CC/AIS/RDI/LB/LT/DM), Bidirectional Forwarding Detection (BFD), RFC 2544 Generator
Traffic management	Traffic Classification (based on Port, VLAN, Port+VLAN, IEEE 802.1p, IPv4/IPv6 TOS and DSCP), Diffserv based TM, Network wide Call 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), Public key authentication, Port blocked as default
Management	LightSOFT® NMS, EMS-NPT, SNMPv2/v3, LCT
Power over Ethernet (PoE+)	Up to 30W
Pluggable SFP/ SFP+ / support	Electrical, Colored C/DWDM, Tunable, SFP+, bidirectional SFPs/SFP+
Maximum distance	600 km, Single span 330 km
Power input	-40 VDC to -75 VDC, 220V
Power dissipation	Typical: 70W
Operating temperature range	-25°C to +70°C (-13°F to 158°F)
Operating RH range	5% to 95%
Environmental standards	ETS 300 019-1-3 Class 3.3 ETS 300 019-1-1 Class 1.2 ETS 300 019-1-2 Class 2.
Safety	EN 60950/2000, according to LVD Directive 72/23/EEC EN 60825 -1&2
Physical dimensions	44 (H) x 465 (W) x 263 (D)

EXPANSION UNIT

Packet	Max. service interfaces: 12 x 100/1000Base-X, 36 x 10/100/1000 Base-T
TDM	Max. Service interfaces: <ul style="list-style-type: none"> Native: 189 x E1/T1, 9 x E3/DS, 12 x STM-1/OC-3 CES: 96 x E1 72 x (n x 64Kbps, FXO, FXS, 2/4W E&M, V24 (RS232), V35, V36, V11, RS422, RS449, C37.94, OMNI, CODIR, G.703 64K)
Physical dimensions	H x W x D: 3.5" x 17.4" x 9.6" / 88 x 443 x 243 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, critical industries, and data center operators. With the advent of 5G, IoT, and smart everything, traffic demands are increasing dramatically, and network operators must make smart choices as they evolve their infrastructure. ECI's Elastic Services Platform leverages our programmable packet and optical networking solutions, along with our service-driven software suite and virtualization capabilities, to provide a robust yet flexible solution for any application. ECI solutions are tailored for the needs of today, yet flexible enough to meet the challenges of tomorrow. For more information, visit us at www.ecitele.com