



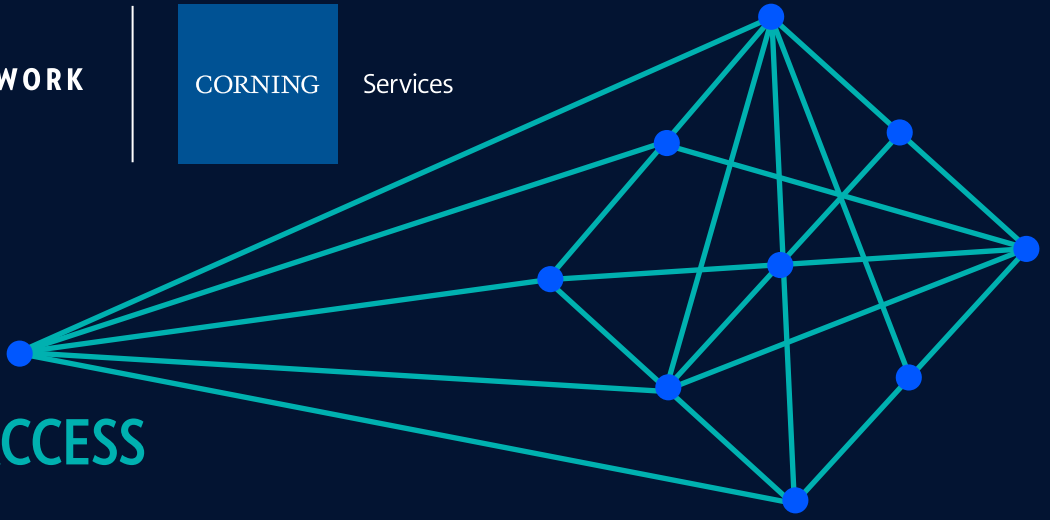
THE ELASTIC NETWORK



Services

NPT-1030

HYBRID METRO ACCESS TRANSPORT



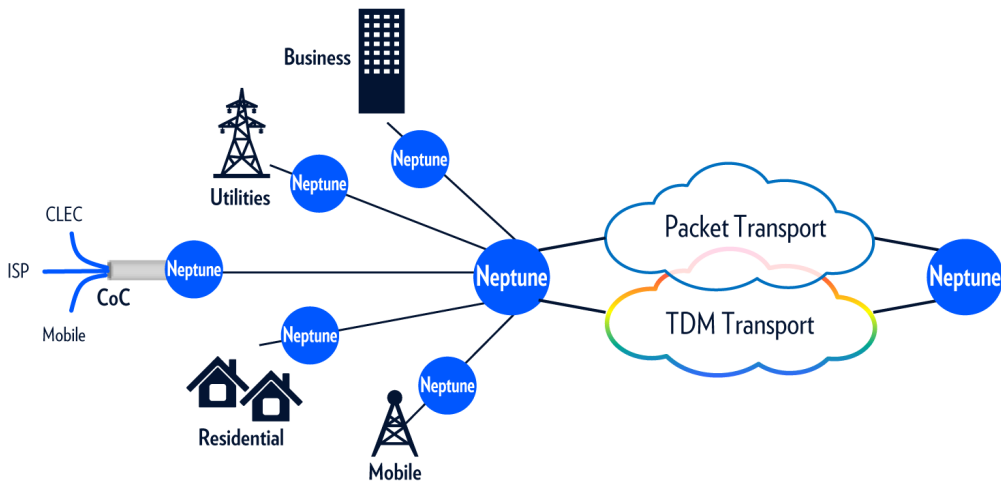
The NPT™-1030 platform belongs to ECI’s Neptune product line. It is a compact, robust, and fully redundant all-native multiservice packet optical transport system for metro access networks. NPT-1030 features built-in modularity and Ethernet/MPLS-TP and TDM service support. It is part of ECI’s Elastic Service Platform for smooth and cost-effective transition from TDM to packet. The unit is only 1RU in height, fully redundant, and supports up to 60 Gbps of packet switching capacity and 15 Gbps of TDM switching capacity.



Neptune streamlines end-to-end metro service delivery by combining carrier-grade service assurance, visibility, and control with packet efficiency and unparalleled multiservice support. It offers a powerful, flexible, and efficient E2E metro solution for high-performance services through convergence of TDM, Ethernet, MPLS, and WDM.

With such a rich and powerful feature set, NPT-1030 is well-suited for a wide variety of applications and networking scenarios. These include mobile backhaul, utilities, wholesale services, residential multiplay and business VPN connectivity services. NPT-1030 is managed by ECI’s unified multilayer LightSOFT® NMS.

<p>Unmatched multiservice native TDM, Ethernet, CES MPLS-TP</p>	<p>Compact and redundant metro access</p>	<p>Carrier-grade service assurance</p>	<p>Independent native processing both TDM and Ethernet</p>
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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 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 (SATO P , 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, Bidirectional Forwarding Detection (BFD)
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, 24 x 10/100/1000 Base-T
TDM	Max. Service interfaces: <ul style="list-style-type: none"> • Native: 189 x E1, 9 x E3/DS3, 12 x STM-1 • CES: 96 x E1 • 72 x (nx64Kbps ,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

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