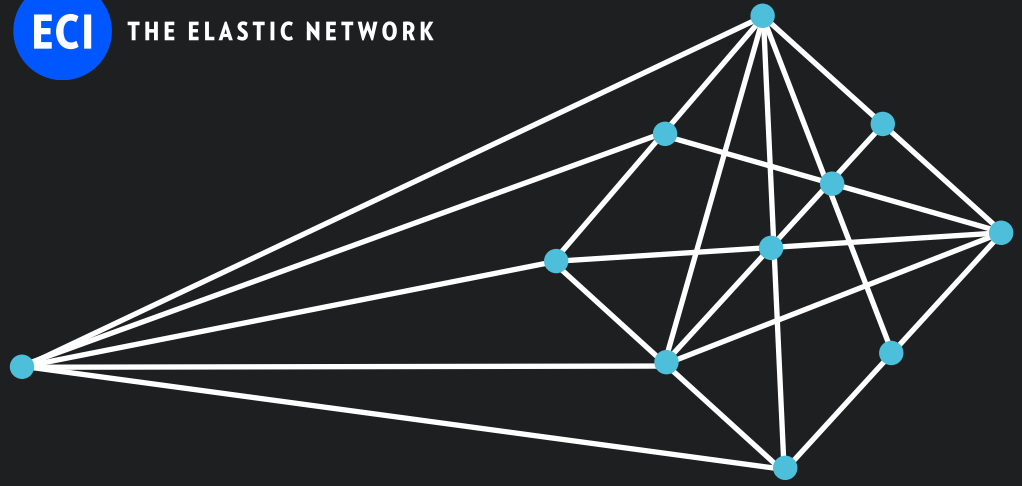


NEPTUNE NPT-1022

L3 METRO ACCESS TRANSPORT

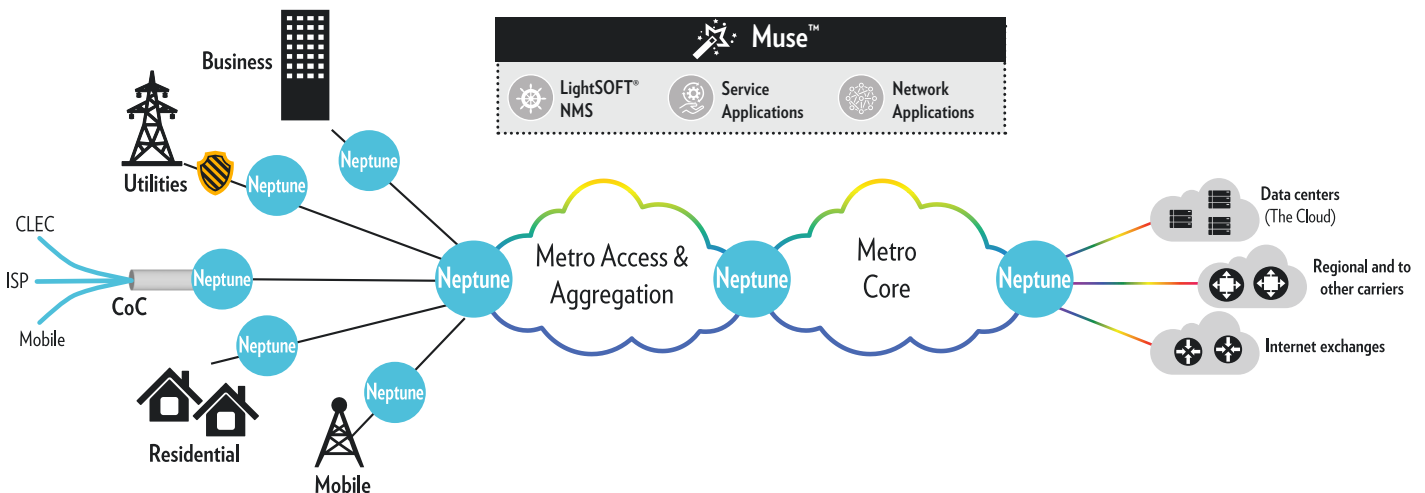


NPT-1022 is an extremely compact, high-capacity MPLS-based (IP and TP) multiservice packet transport platform. A member of ECI's Neptune (NPT) product line, NPT-1022 is 1RU in height, supports up to 64 Gbps capacity, providing a generous fan-out for 10G/GE interfaces, and is optimized for high-capacity CPE and access applications. Neptune streamlines end-to-end metro service delivery by combining carrier-grade service assurance, visibility, and control with packet efficiency and unparalleled multiservice support. Neptune provides a powerful, flexible, and efficient end-to-end metro solution for high-performance L2 and L3 services. It achieves this by converging IP, Elastic MPLS (IP and TP), Ethernet (MEF CE2.0 certified), OTN, WDM, and TDM over CES/CEP. Neptune also supports NFV services and SDN applications, which are compulsory in today's challenging metro environment.



With such a rich and robust feature set, NPT-1022 is well-suited for a wide variety of applications and networking scenarios. These include mobile backhaul, wholesale services, residential multiplay, and Mission Critical and business VPN connectivity services. Like all of ECI's transport products, NPT-1022 is managed by the Muse™ software suite.

<p>Unmatched multiservice from L2 to L3</p>	<p>Compact and high-capacity access</p>	<p>Carrier-grade redundancy and service assurance</p>	<p>Elastic MPLS both IP and TP</p>
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Technical specifications

Packet	Switch: 64 Gbps Services: MEF CE2.0 (E-Line, E-LAN, E-Tree, E-Access) PN and VPN based Ethernet and IP, MPLS (TP and IP) Max. Interfaces (64 Gbps configuration): 25 x 100/1000 Bas-T, 30 x 100/1000 Base-X, 6 x 10GE
TDM	Services: CES (SATO, CESoPSN and CEP) Max. Interfaces: 32 x E1/T1, 4 x STM-1/OC-3, 1 x STM-4/OC-12
WDM	CWDM, DWDM, Amplifiers
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 SATO, TDM bits (T3/T4), and SNTP
Protection and restoration	Power redundancy(AC/DC) for common units, RSTP/MSTP, G.8032 Ethernet Ring Protection (ERP), 1:1 Linear protection, FRR with LFA (Local and Remote) PW Redundancy (PWR), Virtual Router Redundancy Protocol (VRRP), Multisegment-PW, IEEE 802.3ad Ethernet Link, Link Aggregation(LAG) with LACP, Multi Chassis LAG (MC-LAG)
OAM	Ethernet OAM (IEEE 802.1ag and ITU-T Y.1731 PM), IP/MPLS OAM (link BFD, Ping, Trace-route), MPLS-TP OAM G8113.2, RFC5860, Bidirectional Forwarding Detection (BFD), LDI, LSP ping, LSP trace route, RFC 2544 Generator, Y.1564 -Ethernet service activation (SLA), RFC 5357 Two-Way Active Measurement Protocol (TWAMP)
Traffic management	Traffic classification (based on Port, VLAN, Port+VLAN, IEEE 802.1p, IPv4/IPv6 TOS and DSCP), Diffserv based TM, network Connection Admission, Control (CAC), 8 Classes of Service (CoS)
Topologies	Mesh, dual homing , multiring, ring, star, linear
Security	MACsec, RADIUS (client authentication), SSH 2, SSA SW integrity checking (SHA-2), SFTP, Access Control List (ACL), IEEE802.1x, control channel HMAC-256, Public key authentication, port blocked by default
Management	Muse™ software suite (SDN), LightSOFT® NMS, EMS-NPT, SNMPv2/v3, LCT, Muse Network and Service Apps, CLI, NETCONF/YANG, PCEP, BGP-LS
Power over Ethernet (PoE+)	Up to 30W
Pluggable SFP/CSFP/SFP+ support	Electrical, Colored C/DWDM, Tunable, non-colored, Compact SFP (CSFP), SFP+, and bidirectional SFPs/SFP+
Power input	-40 VDC to -72 VDC, 110VAC to 230VAC
Power dissipation	Typical: 100W
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 300 019-2-3 Class 3.3, IEEE 1613 (electric utility substations), IEC 61850-3 (electric utility substations), EN 61000-6-5 (Immunity for substations)
Safety	EN 60950/2000, according to LVD Directive 72/23/EEC, EN 60825-1&2
EMC	EN 300 386-2, FTZ 1TR9
Physical dimensions	H x W x D: 1.7" x 18.3" x 10.4" / 44 x 465 x 263 mm

EXPANSION UNIT

TDM	Max. service interfaces: CES: 48 x E1 (n x 64Kbps, FXO, FXS, 2/4W E&M, V24 (RS232), V35, V36, V11, RS422, RS449, C37.94, OMNI, CODIR, G.703 64K) over packet
Physical dimensions	H x W x D: 1.7" x 17.4" x 9.6" / 44.5 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 RIBBON

Ribbon Communications (Nasdaq: RBBN), which recently merged with ECI Telecom Group, delivers global communications software and network solutions to service providers, enterprises and critical infrastructure sectors. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge IP solutions, UCaaS/ CPaaS cloud offers, leading-edge software security and analytics tools, as well as packet and optical networking leveraging ECI's Elastic Network technology. To learn more about Ribbon, visit rbbn.com and for more information about our packet and optical networking portfolio, visit www.ecitele.com

