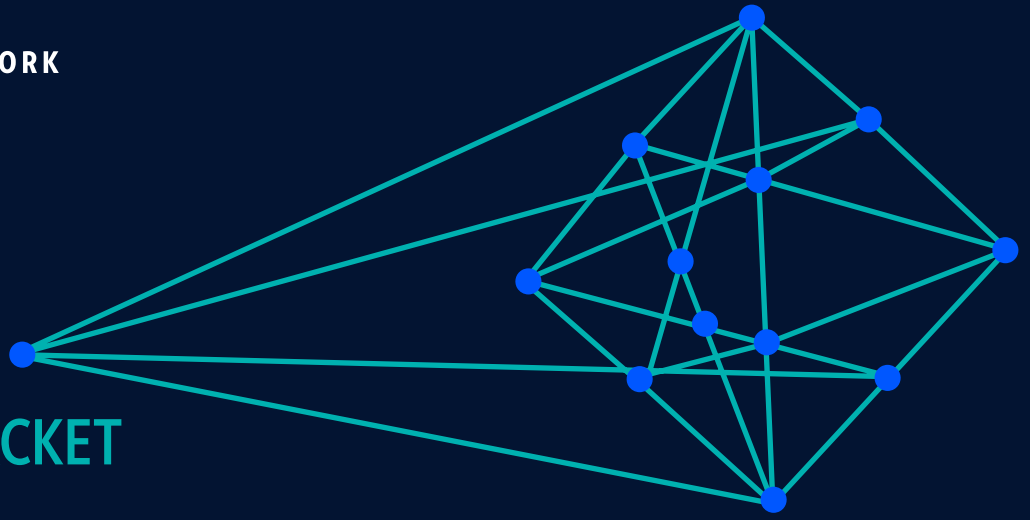


NPT-1021

METRO ACCESS PACKET TRANSPORT

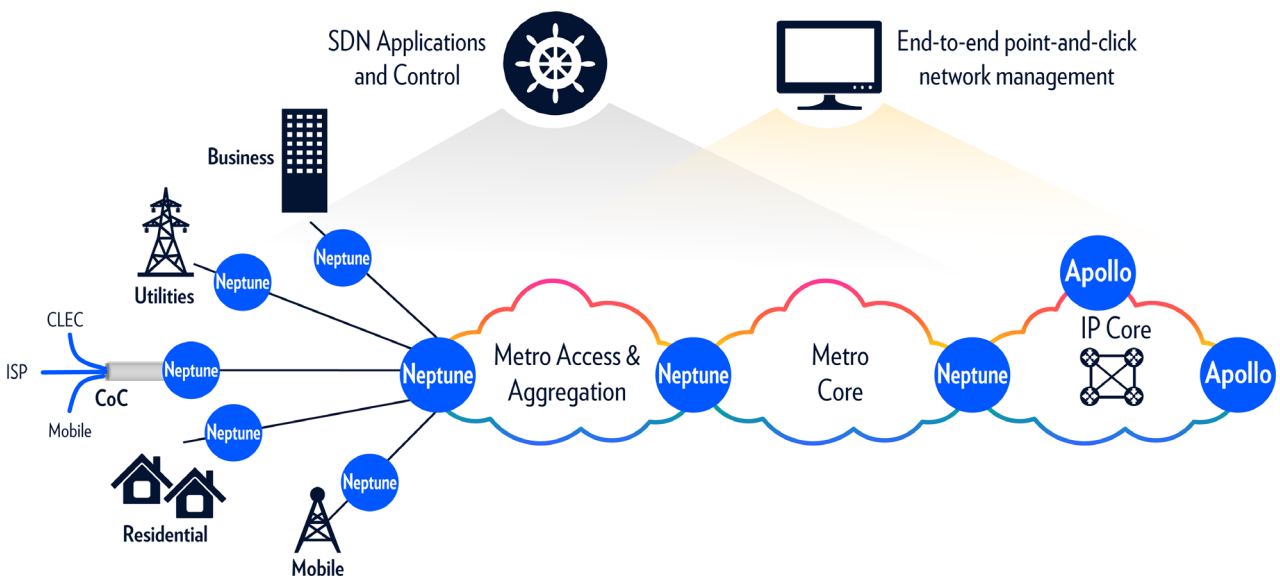


The NPT-1021 is an extremely compact multiservice packet transport platform. A member of ECI's Neptune (NPT) product line, the NPT-1021 is only 1RU in height, supports up to 60 Gbps in capacity, and is optimized for metro access nodes. The Neptune product line streamlines end-to-end metro service delivery by combining carrier-grade service assurance, visibility, and control with packet efficiency and unparalleled multiservice support. This includes packet, OTN, and TDM. It 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 such a rich and robust feature set, the NPT-1021 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-1021 is managed by the unified multilayer LightSoft® NMS.

<p>Unmatched multiservice TDM, Ethernet, MPLS-TP, OTN</p>	<p>Compact packet metro access</p>	<p>Carrier-grade service assurance</p>	<p>Future-proof scalability from GE to 10GE</p>
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Technical specifications

Packet	Switch: 60 Gbps (10 GbE based configuration) / 10 Gbps (GbE configuration) Services: MEF CE2.0 (E-Line, E-LAN, E-Tree, E-Access) PN- and VPN-based Ethernet and IP, MPLS-TP Rooted multipoint for multicast and IPTV Max. interfaces: 16 x 10/100/1000 Base-T , 8 x 100/1000 base-X, 4 x 10GE (60 Gbps configuration) 4 x GPON ONU
TDM	Services: CES (SATO P , CESoPSN, and CEP) Max. CES interfaces: 32 x E1/T1, 4 x STM-1/OC-3 1 x STM-4/OC-12
WDM	CWDM, DWDM, muxponder , 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 SAToP, TDM bits (T3/T4), and SNTP
Protection and restoration	HW redundancy for power supply units, IO hardware protection (IOP), RSTP/MSTP, G.8032 Ethernet Ring Protection (ERP), MPLS-TP FRR, Dual FRR, 1:1 Linear protection, PW Redundancy (PWR), Multisegment-PW, IEEE 802.3ad Ethernet Link Aggregation(LAG) with LACP, Multichassis 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 (CoSs)
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 by default
Management	LightSOFT NMS, EMS-NPT, SNMPv2/v3, LCT, LightAPPS
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, 110 VAC to 230 VAC
Power dissipation	Typical: 50W
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, 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 18.3" x 10.4" / 44 x 465 x 263 mm
Expansion unit	
OTN	Services: Ethernet, storage, video, SDH/SONET Max. Service interfaces: 48 x 1GE, STM-1/4/OC-3/12/FC-1, 24 x STM-16/OC-48/FC-2, 12 x FC-4, 3 x 10GBE/FC-8/FC-12/STM-64/OC-192, 30/24/12xSDI/HD-SDI/HD-SDI3G Max. transport interfaces: 24 x OTU-1, 3 x OTU-2/e
Packet	Max. service interfaces: 36 x 10/100base-T, 36 x 100 base-X
TDM	Max. service interfaces: • CES: 96 x E11, 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) over packet
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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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

