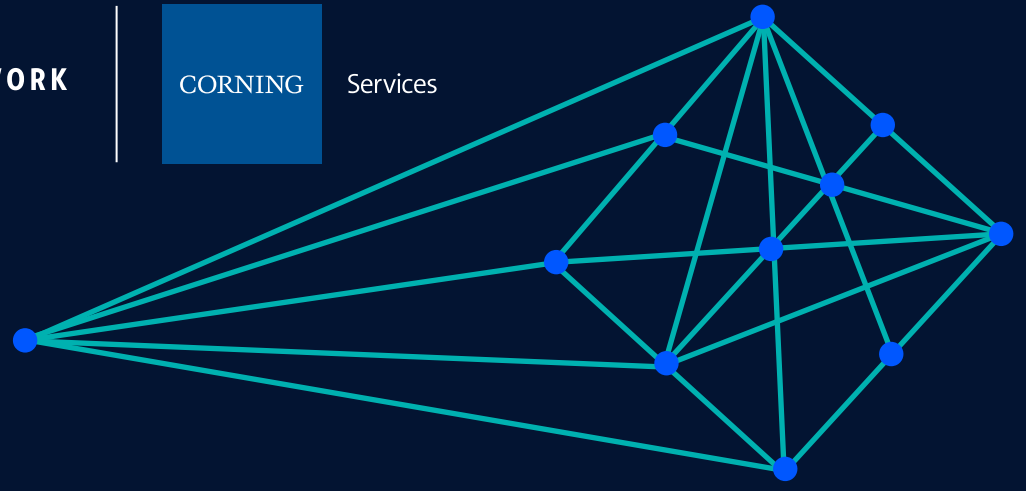


# NEPTUNE NPT-1010D DIN-RAIL MANAGED PACKET TRANSPORT EDGE DEVICE

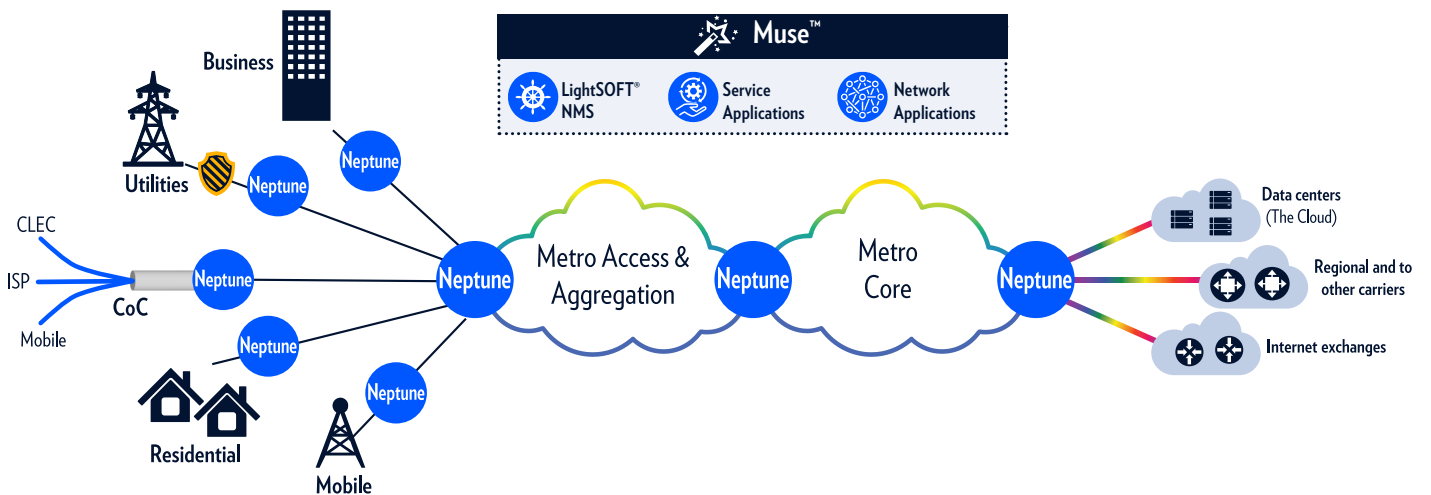


NPT-1010D is an extremely compact packet transport edge device. A member of ECI's Neptune (NPT) product line, NPT-1010D is optimized for remote locations with strict environmental and size requirements. NPT-1010D is a hardened DIN-rail switch, supporting Ethernet and MPLS-TP with up to 5 Gbps switching capacity. 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 end-to-end metro solution for high-performance services. It achieves this by convergence of Ethernet (MEF CE2.0 certified), MPLS-TP, OTN, and WDM. Neptune also provides NFV services and SDN applications, which are compulsory in today's challenging metro environment.



With such a rich and robust feature set, NPT-1010D is well suited for a wide variety of applications and networking scenarios. These include a gateway for mission-critical services, wholesale service delivery, and business VPN connectivity services. As with all of ECI's transport products, NPT-1010D is managed by ECI's Muse™ software suite.

<p><b>Unmatched multiservice</b> Ethernet, MPLS-TP</p>	<p><b>Fully-managed</b> edge device</p>	<p><b>Carrier-grade</b> service assurance</p>	<p><b>Cost optimized</b> compact and hardened</p>
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# Technical specifications

<b>Packet</b>	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, 4 x 100/1000BaseT/X
<b>WDM</b>	CWDM, DWDM
<b>Timing and Synchronization</b>	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
<b>Protection and restoration</b>	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)
<b>OAM</b>	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)
<b>Traffic management</b>	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)
<b>Topologies</b>	Mesh, dual homing, multi-ring, ring, star, linear
<b>Security</b>	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
<b>Management</b>	Muse™ software suite (SDN orchestration and control), LightSOFT® NMS, EMS-NPT, SNMPv2/v3, LCT, Muse Network and Service Apps
<b>Pluggable SFP support</b>	Electrical, non-colored, colored C/DWDM
<b>Power input</b>	-20VDC to -72VDC or +20VDC to +70VDC
<b>Power dissipation</b>	Typical: 30W
<b>Operating temperature range</b>	-25°C to +70°C (-4°F to 158°F)
<b>Operating RH range</b>	5% to 95%
<b>Environmental standards</b>	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)
<b>Safety</b>	EN60950-1
<b>EMC</b>	EN 300 386
<b>Physical dimensions</b>	H x W x D: 5.9" x 2.3" x 4.7" / 151 x 58.1 x 120 mm (DIN-rail compliant)

Specifications subject to change without notice

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



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European Countries

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