



# Neptune NPT-1011

## Compact Cell Site Router and IP/MPLS L3 CPE

NPT-1011, is optimized for customer premise and service provider demarcation points, and for business and mobile backhauling services. Measuring just 1RU in height, NPT-1011 offers up to 6 Gbps in capacity, enabling smooth transition from TDM to packet by supporting both packet (Ethernet, IP/MPLS and L3) and TDM services, via CES. 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 E2E metro solution for high-performance services through convergence of Ethernet (MEF CE2.0 certified), MPLS-TP, IP/MPLS, OTN, WDM, and TDM. Neptune also supports NFV services and SDN applications, which are compulsory in today's challenging metro environment.



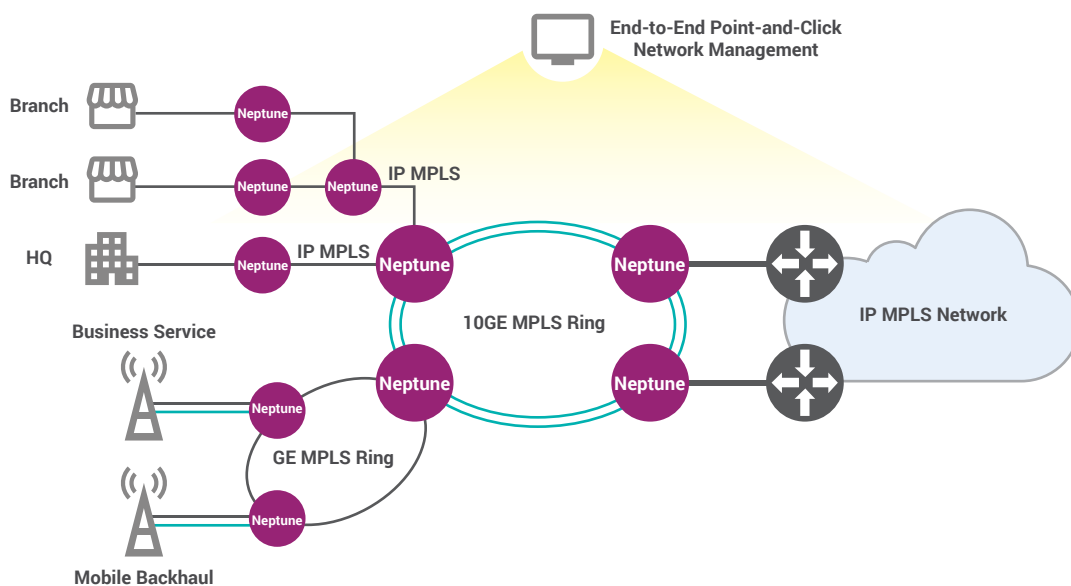
With a rich and robust feature set, NPT-1011 is well-suited for a wide variety of applications and networking scenarios. These include mobile backhaul, wholesale services, residential multiplay, and business VPN connectivity services. Like all of Ribbon's transport products, NPT-1011 is managed by the Muse™ software suite.

**Unmatched Multiservice**  
TDM, Ethernet, IP/MPLS, L3

**Fully-Managed CPE**

**Carrier-Grade service assurance**

**Cost Optimized compact and customized**



## Technical Specifications

<b>Packet</b>	Switch: 6 Gbps Services: MEF CE2.0 (E-Line, E-LAN, E-Tree, E-Access) PN- and VPN-based Ethernet and IP, MPLS-TP, IP/MPLS MPLS VPWS, VPLS, L3VPN, LDP for LSP/PW Max. interfaces: 2 x 10/100/1000BaseX + 4 x GE combo ports
<b>TDM</b>	Services: CES (SATO, CESoPSN) Max. CES interfaces: 4 x E1
<b>WDM</b>	CWDM, DWDM
<b>Timing and Synchronization</b>	SyncE according to ITU-T G.8261/G.8262, 1588v2, SNTP and NTP
<b>Protection, restoration and High availability</b>	Hardware redundancy for power supply units G.8031 ELPS, G.8032 Ethernet Ring Protection (ERP), 1:1 Linear protection, PW Redundancy (PWR), IEEE 802.3ad Ethernet Link Aggregation (LAG) with LACP, VRRP Supports graceful restart on OSPF, BGP
<b>OAM</b>	Ethernet OAM (IEEE802.3ah, IEEE 802.1ag and ITU-T Y.1731 PM), MPLS-TP OAM (G8113.1) (CC/LB/LT/AIS/RDI/APS/LM/DM/CSF), RFC 2544 Generator, Y.1564 -Ethernet service activation (SLA), IP and MPLS OAM (IPv4 Ping, IPv4 Traceroute, LSP Ping/PW Ping/Tunnel, LSP Traceroute/PW Traceroute/Tunnel Traceroute/L3VPN Traceroute/Ping/L3VPN Ping, BFD for OSPF/VRRP, BFD for PW/Static LSP/LDP LSP/CR-LSP/Tunnel/IP
<b>Traffic management</b>	Traffic classification (based on Port, VLAN, Port+VLAN, IEEE 802.1p, and DSCP), Diffserv-based TM, 8 Classes of Service (CoSs), Rewriting of 802.1p CoS/DSCP per EVC
<b>Topologies</b>	Mesh, dual homing, multi-ring, ring, star, linear
<b>Security</b>	RADIUS (client authentication), SSHv2, Access Control List (ACL), Port isolation, CPU rate limit protection
<b>Management</b>	MUSE Lightsoft NMS, SNMPv2/v3, CLI, syslog, Muse™
<b>Pluggable SFP support</b>	Electrical, colored C/DWDM, non-colored bidirectional SFPs
<b>Power input</b>	-36 VDC to -72 VDC, 100 VAC to 240 VAC
<b>Power dissipation</b>	Maximum $\leq 25$ W
<b>Operating temperature range</b>	-10°C to +65°C (-23°F to 149°F)
<b>Operating RH range</b>	10% to 90%
<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, utility substations), EN 61000-6-5 (Immunity for substations)
<b>Safety</b>	EN60950-1
<b>EMC</b>	EN 300 386, EN 55022, EN 55024, EN 61000
<b>Physical dimensions</b>	H x W x D: 1.7" x 8.7" x 7.1" / 44 x 220 x 180 mm

Specifications subject to change without notice

**Contact Us**

We are here to help. Contact us about our IP Wave solutions.

### About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. 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 software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. We maintain a keen focus on our commitments to Environmental, Social and Governance (ESG) matters, offering an annual Sustainability Report to our stakeholders. To learn more about Ribbon, please visit [rbbn.com](http://rbbn.com).