

# NPT 1015

## Compact Packet CPE



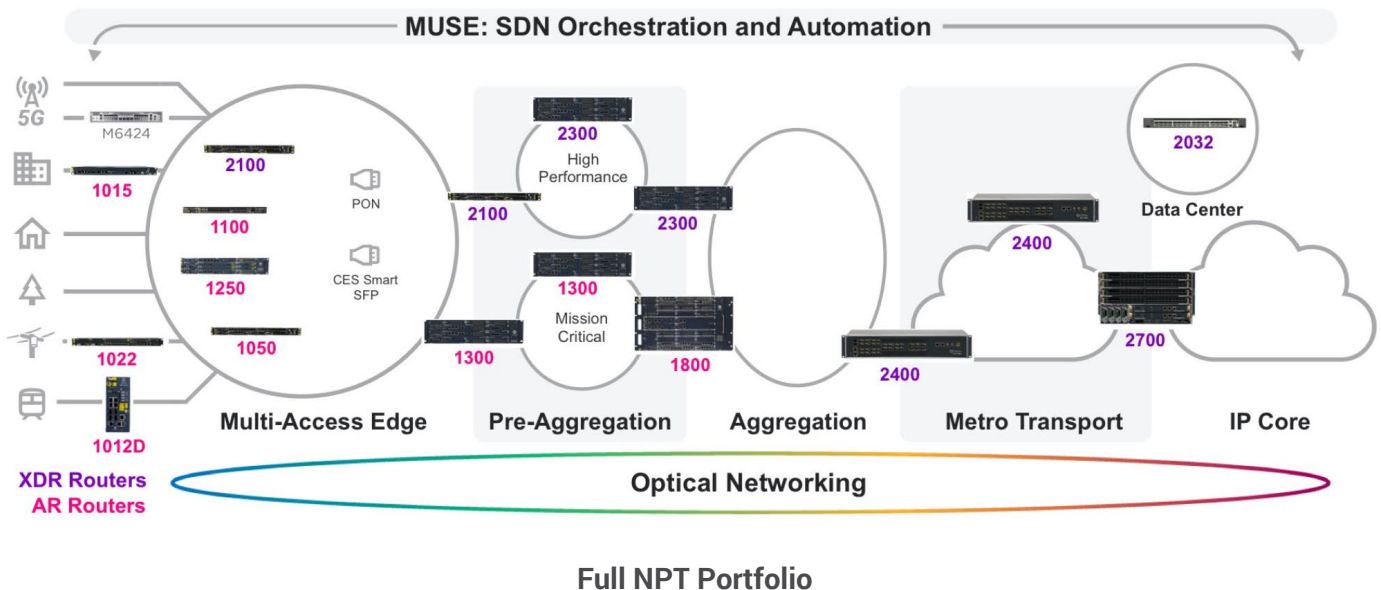
The NPT 1015 is an extremely compact, fully-managed, packet CPE, supporting Ethernet, TDM, and MPLS-TP in a small, fan less form factor.



Its 1RU height and 8Gbit/s capacity make it a perfect fit for customer premise demarcation points and the Ethernet interfaces efficiently utilize the access infrastructure.

With such a rich and robust feature set and its fan less operation the NPT 1015 is well-suited for a wide variety of applications and networking scenarios, these include;

- CES for TDM migration
- Mobile backhaul
- Wholesale services
- Residential multiplay
- Business VPNs,
- Mission-critical networks



## Key Product Specifications NPT 1015B

### Platform

Description	Specification
Performance	<ul style="list-style-type: none"> <li>8 Gbps Switch</li> </ul>
Traffic Interfaces	<ul style="list-style-type: none"> <li>Max. Interfaces</li> <li>4 x 10/100/1000 BaseT with 4 x 100/1000 BaseT/X</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>Fan less cooling</li> </ul>
Timing	<ul style="list-style-type: none"> <li>SyncE with ESMC</li> <li>1588v2</li> <li>Internal stratum 3 clock (holdover state)</li> <li>Primary and secondary sources (supports SSM bits)</li> <li>ACR, DCR</li> <li>Loop timing on SAToP</li> <li>SNTP</li> </ul>
Physical Specification	<ul style="list-style-type: none"> <li>H x W x D: 44.5 x 440 x 169 mm</li> <li>Weight:               <ul style="list-style-type: none"> <li>1.70kg with DC power</li> <li>2.12kg with AC power)</li> </ul> </li> </ul>

### Environmental

Description	Specification
Operating environment and altitude	<ul style="list-style-type: none"> <li>-5°C to +50°C (-13°F to 149°F)</li> </ul>
Operating humidity	<ul style="list-style-type: none"> <li>5% to 95%</li> </ul>
Power input	<ul style="list-style-type: none"> <li>DC-48V ±20% or AC 100~240V</li> </ul>
Power dissipation	<ul style="list-style-type: none"> <li>Typical: DC 25W, AC 27W</li> </ul>

## Standards Compliance

Description	Specification
<b>Regulatory</b>	<ul style="list-style-type: none"> <li>Products should comply with CE markings according to directives 2014/30/EC and 2014/35/EC</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>EN 62368-1:2020 + A11:2020</li> <li>IEC 62368-1:2018</li> </ul>
<b>EMC</b>	<ul style="list-style-type: none"> <li>ETSI EN 300 386 V1.6.1:2012</li> <li>ETSI EN 300386 V2.1.1:2016</li> <li>EN 55035:2017/A11:2020</li> <li>EN 55032:2015/A11:2020</li> <li>CISPR 32:2015</li> </ul>
<b>Environmental standards</b>	<ul style="list-style-type: none"> <li>ETS 300 019-2-1 Class 3.3</li> <li>ETS 300 019-2-2 Class 3.3</li> <li>ETS 300 019-2-3 Class 3.3</li> <li>QM 333</li> </ul>
<b>RoHS</b>	<ul style="list-style-type: none"> <li>Compliance per EU RoHS, RoHS 2 directive 2011/65/EU and amendment 2015/863/EU directives</li> </ul>

## Multi-access Edge and Transport Capabilities

Description	Specification
Packet Services	<ul style="list-style-type: none"> <li>• MPLS-TP</li> <li>• VPN based Ethernet</li> <li>• L2VPN - MEF 3.0               <ul style="list-style-type: none"> <li>• E-Line</li> <li>• E-LAN</li> <li>• E-Tree</li> <li>• E-Access</li> </ul> </li> </ul>
TDM Services	<ul style="list-style-type: none"> <li>• CES (SAToP)</li> </ul>
TDM Interfaces	<ul style="list-style-type: none"> <li>• Max. Interfaces: 4 x E1</li> </ul>
IP Over DWDM	<ul style="list-style-type: none"> <li>• CWDM</li> <li>• DWDM</li> </ul>
Pluggable SFP support	<ul style="list-style-type: none"> <li>• Electrical</li> <li>• Colored C/DWDM</li> <li>• Non-colored bidirectional SFPs</li> </ul>

## Software Features Provided by NPT 1015B

Description	Specification
<b>OAM</b>	<ul style="list-style-type: none"> <li>Ethernet OAM (IEEE802.3ah, IEEE 802.1ag and ITU-T Y.1731 PM)</li> <li>MPLS-TP OAM (G8113.2) (CC/AIS/RDI/LB/LT/DM)</li> <li>Bidirectional Forwarding Detection (BFD)</li> </ul>
<b>Traffic management (QoS)</b>	<ul style="list-style-type: none"> <li>Traffic classification (based on Port, VLAN, Port+VLAN IEEE 802.1p and DSCP)</li> <li>Diffserv based TM</li> <li>Network Connection Admission Control (CAC)</li> <li>8 Classes of Service (CoS)</li> </ul>
<b>Supported Topologies</b>	<ul style="list-style-type: none"> <li>Mesh</li> <li>Dual homing</li> <li>Multi-ring</li> <li>Ring</li> <li>Star</li> <li>Linear</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>Secure Shell SSHv2 and SFTP are supported to access the NE</li> <li>Access Control List (ACL) is supported</li> <li>OSPF key authentication is supported</li> </ul>
<b>Manageability</b>	<ul style="list-style-type: none"> <li>LightSOFT® NMS</li> <li>EMS-NPT</li> <li>SNMPv2/v3</li> <li>LightAPPS</li> <li>LCT</li> <li>CLI</li> </ul>

*Specifications subject to change without notice*

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