

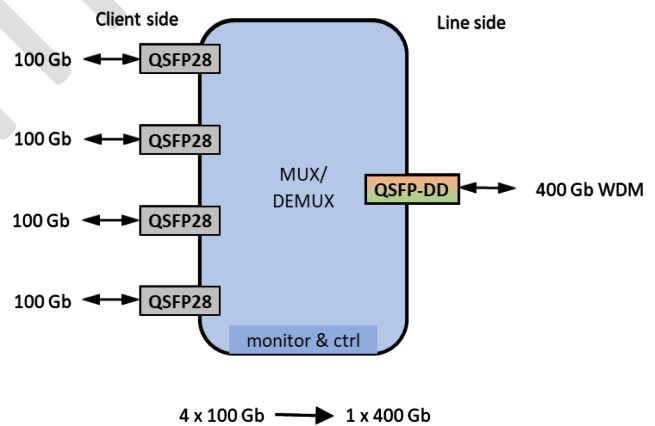
#### Features

- Mapping four 100GE services to single OTUC4 line side service
- Line side 100-400Gb QSFP-DD DCO pluggable module
- Line side tunable in extended C-Band range (191.35 to 196.1 THz)
- Client side 4x QSFP28 optical pluggable ports
- ITU-T standards support

#### Applications

- For Metro and long distance (up to 450 km) communications
- Optimal for data center interconnect (DCI) solutions, campus connections, cloud computing etc.
- It can be seamlessly integrated into the current OTN/DWDM 400G installations

#### Function Structure



#### Description

The X86-P614 400G Muxponder service board can multiplex up to 4x 100GE services on client side to single OTUC4 service on Line side using QSFP-DD DCO (Digital Coherent Optics) pluggable module. This module provides tunable optical DWDM signal in extended C-Band wavelengths and incorporates advanced technologies like coherent detection with CD compensation to enable ultra-long distance transmission. Muxponder board can provide up to 30W power to Line side QSFP-DD module. Modules on Client side are standard QSFP28 compliant pluggable modules with up to 5W power consumption that can provide wide variety of interface options for local connections.

**Product Specifications**

Parameter	Description
<b>Occupied slots</b>	1/4 slot for X8600-DCI4 IN DCI8 chassis
<b>Line side</b>	<ul style="list-style-type: none"> <li>• 1 QSFP-DD optical port: using 400G QSFP-DD DCO module, pluggable</li> <li>• Tunable optical line signal in extended C-Band (191.35~196.1 THz)</li> <li>• Adjustable output optical power -13 to -9 dBm range</li> <li>• Support 100 Gb/s to 400 Gb/s rates</li> <li>• QSFP-DD module can consume up to 30W</li> </ul>
<b>Client side</b>	4 QSFP28 optical ports pluggable, supports standard CAUI4 transceivers with up to 5.5 W power consumption
<b>OTN functionality</b>	<ul style="list-style-type: none"> <li>• Supports ITU-T G709 recommended frame format for line side FEC</li> <li>• The ODUk (k=C4) layer supports PM and SM functions</li> </ul>
<b>Supported service Types</b>	Client side service type are 100GE, 100GE FlexE ( Unware)
<b>Loopback</b>	Transponder supports line-side and client-side loopback test functions
<b>ALS</b>	Automatic Line shutdown is supported for safer handling
<b>LLDP</b>	LLDP supported on client side
<b>Protection function</b>	With external protection module, can provide line side protection with client-side link down indication when protection optical path is used.
<b>Performance monitoring and alarm monitoring</b>	<ul style="list-style-type: none"> <li>• Line-side OTN layer performance monitoring and alarm monitoring functions</li> <li>• Client-side Ethernet line and framing error alarms</li> <li>• Line-side Optical channel OSNR, temperature, current, optical power, etc. monitoring</li> <li>• Client side: Ethernet RMON monitoring and Ethernet PCS layer performance statistics</li> </ul>

**Ordering information<sup>1</sup>**

Part number	Product Description
X86-P614	400G Muxponder Service Board

Notes

<sup>1</sup> For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

Please specify any compatibility requirements at time of ordering. Standard MSA compatible pluggable components may not work or some function of these components may not be available in devices that require customized compatible devices. Pluggable components compatible with one type of communications equipment may not work in other type of communications equipment.

**Important Notice**

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by XenOpt before they become applicable to any particular order or contract. In accordance with the XenOpt policy of continuous improvement specifications may change without notice.

The product image is only for reference purpose

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