100G Muxponder

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Variants

P422

Details

100G Muxponder Service Board – P422

The 100G Muxponder service board (P422) from D-TECH Trading supports mapping 20 × 10G optical client signals into 2 independent OTU4 signals, or 10 × 10G optical signals into 1 × OTU4 signal with port 1+1 protection. The line side supports QSFP28 gray optical modules or QSFP28 / QSFP-DD DCO coherent modules to meet different transmission distance and network requirements.

Applications

Use Cases
Metro and long-haul transmission networks up to 1500 km using QSFP28 / QSFP-DD
High-capacity DCI transmission for enterprises, campuses, and cloud computing networks
100G upgrade links for existing OTN / DWDM infrastructure

Technical Specifications

Feature	Details
Muxponder Type	100G Muxponder (P422)
Slots	2 slots

Line Side	2 × QSFP28 / QSFP-DD ports Supports 100G QSFP28 / QSFP-DD DCO pluggable modules Supports adjustable wavelength range: 191.35 ~ 196.1 THz
Client Side	Supports 20 hot-swappable SFP+ modules
Function	Supports 20 × 10G service signals mapping to 2 × OTU4 signals Supports 10 × 10G service signals mapping to 1 × OTU4 signal with port 1+1 protection
Frame Format & Overhead Handling	Based on ITU-T G.709 recommendations
OTN Function	ODUk (k=2, 2e, 4) layer: supports PM and related functions OTUk (k=2, 4) layer: supports SM functions
Supported Service Types	10GE, FC 8G / 16G, STM-64, OTU2
Loop Back	Supports line-side and client-side loopback
Protection Function	Supports port 1+1 protection (10 × 10G on client side, 2 × 100G on line side)
OTN Performance Monitoring	Supports OTN performance monitoring and alarm monitoring
Performance Monitoring & Alarm Monitoring	Supports optical module temperature, current, and optical power monitoring Supports Ethernet RMON monitoring Supports Telemetry

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