

DeltaStream Chassis Optical Line Terminal-X7

MODEL:DS-P8000-X7



Overview

The DS-P8000-X7 is a DeltaStream Chassis Optical Line Terminal with full L2 and advanced L3 features designed to meet a wide range of business needs. The chassis OLT supports a higher number of ONUs and allows flexible upgrade from subscriber scale, GPON to XGS-PON by replacing the service board. Its dual main control redundancy design further improves the stability of the OLT network.



High Performance Distributed Architecture

Supports up to 160Gbit/s switch capacity for each service slot.



High Split Ratio for High Capacity

Support 1:256 (XGS-PON) & 1:128 (GPON) splitting ratio for every port - up to 43008 ONTs by one device.*



Flexible and Multiple Service Capabilities

Supports different specifications of GPON or XGS-PON&GPON Combo Service Board.



Free Centralized Management

Makes maintenance easier with remote batch configuration and updates via DeltaStream PON Management System(DPMS), SNMP, CLI, and WEB UI.

Specifications

Hardware

- Slot
 - 2× Main Central Unit Slot
 - 7× Service Board Slot
 - 2× Power Supply Unit Slot
 - 1× Common Interface Unit Slot
 - 3× FAN Unit Slot
- Uplink Port Number
 - DS-MCUB (Main Central Unit Slot): 2×100 QSFP28
- Dimensions (W * D * H)
 - The whole machine(without angle iron and fiber manager)
17.4 × 11.2 × 10.4 in(442 × 284 × 263.9 mm)
 - The whole machine(with angle iron, excluding angle iron mounting ears)
17.5 × 11.2 × 10.4 in(446 × 284 × 263.9 mm)
 - The whole machine(with angle iron, including angle iron mounting ears)
19 × 11.2 × 10.4 in(482.6 × 284 × 263.9 mm)
- GPON Number
 - 112 GPON@max
- XGS-PON&GPON Combo Number
 - 112 comboPON@max
- Power Supply
 - DC Power: -48V/-60V(-38.4V~-72V)
- Power Consumption
 - Estimated MAX 1200W
- Button
 - 1× RESET button

PON Port Attribute

- Max. Splitting Ratio
 - GPON: 1:128
 - XGS-PON: 1:256
- Data Rate
 - GPON:
Downstream: 2.5Gbps; Upstream: 1.25Gbps
 - XGS-PON:
Downstream: 10Gbps; Upstream: 10Gbps
- Wave Length
 - GPON:
Tx: 1490nm, Rx: 1310nm
 - XGS-PON:
Tx: 1577nm, Rx: 1270nm
- Fiber Type
 - 9/125μm SMF (Single Mode Fiber)
- Transmission Distance
 - 60km

Software

- OMCI
 - Standard OMCI Management Supported
- ONU Authentication
 - ONU Auto Authentication
- Multi-Service
 - Multi-Service Traffic Identify and Rate Limit
- Routing
 - Static Routing/RIP/RIPng/OSPF/IS-IS/BGP/VRF
- Multicast
 - IGMP Snooping/MLD Snooping/PIM-DM/PIM-SM/PIM-SSM
- DHCP
 - DHCP Server, DHCP Relay
- Security
 - ACL, 802.1x Authentication
- ONU Security
 - Rogue ONU Detection and Isolation,
Uplink and Downlink Data Encryption
- QoS
 - IEEE 802.1p/DSCP QoS
Voice VLAN
Auto VoIP
- Centralized Management
 - Large-Scale Devices Management,
OLT Batch Configure, Upgrade, Reboot,
Multi-Site Management,
Intelligent Network Monitoring,
Real-time Network Overview
- Reliability
 - STP/RSTP/MSTP, CFM, Load Balance, VRRP, ERPS, BFD,
ISSU(In Service Software Upgrade),
PON TypeB/C
- Stack
 - Two Frames stack
- Maintenance
 - OMADA/DPMS, OAM, DLDP, PPPoE simulation, DHCP simulation

Others

- Certification
 - CE,FCC
- Environment
 - Operating Temperature: 0°C~50°C (32°F ~122°F)
 - Storage Temperature: -40°C~70°C (-40°F ~158°F)
 - Operating Humidity: 10%~90% non-condensing
 - Storage Humidity: 5%~90% non-condensing
- Package Contents
 - DeltaStream Chassis Optical Line Terminal-X7 DS-P8000-X7
 - 2× DC Power Cord, 1× Console Cable
 - Installation Guide
 - Fiber Manager and Ground Wire
 - Mounting Brackets, Screws and Rubber Feet
 - ESD-Preventive Wrist Wrap