Model No. : MOLT-XGS16P

FTTH REDEFINED

XGSPON OLT UNIT

MOLT-XGS-16P

PRODUCT DATASHEET



PRODUCT DESCRIPTION

Mars XGSPON 16P is our newest and most advanced OLT unit which supports GPON/ XGPON/XGSPON platforms. With compact size, 16 Port versions can come in 1U 19 inches pizza box case.

The OLT provides end-to-end 10Gbps optical last mile solution with multiple services like Triple play to residential and business customers.

PRODUCT FEATURES

16x
PON ports

OMCI
Remote Management

Combo Ports
can work as GPON & XGSPON

2x
100GE Ports

PRODUCT | MOLT-XGS-16P

FEATURES & SPECIFICATIONS

GENERAL/PHYSICAL FEATURES

DIMENSIONS
L=482mm W=286mm D=44mm

WEIGHT
4.8 kg

PORTS
16x Combo ports which work as GPON / XGSPON

WORKING TEMPERATURE
0 to 40 °Celsius

STORAGE TEMPERATURE
-40 to 70 °Celsius

RELATIVE HUMIDITY
10% to 90%, non-condensing

POWER TYPE AND CONSUMPTION
Consumes - **250W typical usage**
AC/DC redundancy power type

INTERFACE SPECS

SWITCH CAPACITY
300 Gbps

SPLIT RATIO
1:64 (GPON) | 1:128 (XGSPON)

PON Tx POWER
3~7dBm (C+), 4~8dBm (N2a)

PON Rx SENSITIVITY
-30 dBm (C+), -29.5dBm (N2a)

BANDWIDTH
GPON: 1.25Gbps (Up), 2.5Gbps (Down)
XGPON: 2.5Gbps (Up), 10Gbps (Down)
XGSPON: 10Gbps (Up), 10Gbps (Down)

WAVELENGTH
GPON: 1310 nm (Up), 1490 nm (Down)
XGSPON: 1270nm (Up), 1577nm (Down)

STANDARDS COMPLIANT

- ITU-T G.984/G.987/G.988/G.9807 compliant
- IEEE 802.1D, Spanning Tree
  IEEE 802.1Q, VLAN | IEEE 802.1w, RSTP
  IEEE 802.3ad, LACP | Ethernet - II

PON FEATURES

- Splitter Ratio: 1:64(GPON)
  1:128(XG(S)PON)
- Support N1&B+/N2&C+ (XGSPON COMBO) transceiver
- SN / SN+Password ONU authentication
- FEC
- ONU Digital Diagnostic Monitor
- Rogue ONU Detection

L2 FEATURES

- Line-speed switch/forwarding
- 355K MAC address table
- Port-based VLAN, Protocol-based VLAN, 802.1q VLAN
- ONU-based QinQ, 1:1/N:1 VLAN translate
- LACP/LAG
- STP/RSTP/MSTP
- Port Mirror
- Flow control / Back pressure
- Broadcast/DLF/Unknown Multicast storm control

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FEATURES & SPECIFICATIONS

L3 FEATURES

- Switch Virtual Interface (SVI): IPv4/IPv6
- Static Route
- Static/Dynamic ARP
- ICMP/Traceroute
- DHCP Server / DHCP Relay: IPv4/IPv6

SECURITY

- SSH
- ACL
- User isolation
- Encryption in PON downstream
- DHCP Option82 / PPPoE+

MULTICAST

- IGMPv1/v2 snooping
- MLDv1 snooping
- IGMP snooping with Proxy
- Fast Leave

OAM

- FTP/TFTP, Ethernet OAM
- SNMP v1 & v2c, Telnet (IPv4/IPv6), Console（CLI）
- In-band/Out-band Management
- Auto provision for ONU configuration
- PM

QoS

- IEEE 802.1p, 8 CoS queue
- SP/WRR/SP+WRR
- IPv4 TOS/IP Predence
- Classification/Shaping/Policy/ Rate limit/Schedule
- DBA
- ONU-based bandwidth control in downstream