Model No. : MOLT33-80P

FTTH REDEFINED FOR YOU!

GPON OLT UNIT

MARS | MOLT33-80P

PRODUCT DATASHEET



PRODUCT DESCRIPTION

Mars MOLT33-80P is a 5RU enhanced OLT that is the most cost-effective & versatile GPON/XGSPON equipment.

The 8U chassis, high-density line card provides (max) 80 downstream GPON ports, Uplink (max) 8*10GE SFP+. The splitting ratio of up to 1:128 supports different configuration of GX ONTs in order to minimize operator investment.

PRODUCT FEATURES

Heat Sync
Advanced FAN system

XGSPON
Speed compatible

AC/DC
Reliable Power Redundancy

PON Protection
Data Encryption

PRODUCT MODEL MOLT33-80P

FEATURES & SPECIFICATIONS



GENERAL/PHYSICAL FEATURES

DIMENSIONS
W=482.6mm D=260mm H=223mm

WEIGHT(fully loaded)
<8.8 kg or equal

WORKING TEMPERATURE
0 to 50 °Celsius

STORAGE TEMPERATURE
-40 to 70 °Celsius

RELATIVE HUMIDITY
10% to 90%, non-condensing

POWER CONSUMPTION
<450W or equal

DOWNLINK PORTS
40/80 GPON, 40 XGPON & 40 XGSPON

UPLINK PORTS
8x 10 GE SFP+ uplink ports

GPON FEATURES

- ITU-TG.984.x standard
- Max 80 GPON OLT ports
- Each GPON port supports 128 ONU
- MOLT33-80P supports max 10240 ONU (full loaded)
- Maximum transmission 20Km
- FEC Uplink/Downlink support
- Support downlink AES-128 encryption protocol
- Bandwidth allocation mechanism
- OMCI supported

L2 FEATURES

MAC

- MAC black hole
- Port MAC limit
- 64K aggregation
- Switching capacity 410 Gbps
- Dynamic learning

VLAN

- 4K VLAN entries
- Dual 802.1ad flexible QinQ
- Port/MAC/IP subnet based VLAN
- QinQ (StackedVLAN)
- 32K incoming port VLAN conversion

L3 FEATURES

FORWARDING

- 16K IPv4 or 8K IPv6 host routing
- 32K LPM IPv4 or 16K LPM IPv6 routing
- 8K IPv4 multicast or 4K IPv6 Multicast
- Static route
- RIP
- BGP
- OSPF

L3 FEATURES

SPANNING TREE PROTOCOL

- 802.1D, STP, 802.1w, RSTP, 802.1s multi spanning tree protocol

ACL

- ACL packet filtering based on L2 and L3 protocols

TRAFFIC CONTROL

- S802.3X full duplex flow control
- Half duplex back pressure flow control

SECURITY

DEVICE SECURITY

- SSHv2 Secure Shell
- SNMP v3 encrypted management

NETWORK SECURITY

- L2 to L7 ACL flow filtration
- DHCP option 82

RELIABILITY

LOOP PROTECTION

- STP
- Loop detection

LINK PROTECTION

- RSTP/MSTP (recover time <1s)
- LACP (recover-time <10ms), BFD

DEVICE PROTECTION

- 1+1 Power hot backup
- Hot plug fan tray

MAINTENANCE

NETWORK MAINTENANCE

- Telnet-based statistics
- Support unicast, multicast, broadcast storm
- The range of inhibition is 0~32000000 PPS
- Ping and Traceroute

DEVICE MANAGEMENT

- CLI, Console port, Telnet and WEB
- SNMPv1/v2/v3
- NTP
- NMS