Model No. : MOLT33-16P

FTTH REDEFINED

GPON OLT UNIT

MARS | MOLT33-16P

PRODUCT DATASHEET



PRODUCT DESCRIPTION

Mars OLT (16 Port)
is our newest and most advanced OLT unit which has 1U 19 inches in size. Single PON port supports 128 terminals.

This 16 PON port device is better suited for physical links of upto 20 KM in distance. It provides support for ISP multi-service integration (Triple-play services)

PRODUCT FEATURES

16x
PON ports

AC/DC
Reliable Power Redundancy

OMCI
Remote Management

Auto-Detect
ONT recognition & up-grade

PRODUCT MODEL MOLT33-16P

FEATURES & SPECIFICATIONS



GENERAL/PHYSICAL FEATURES

DIMENSIONS
L=445mm W=383mm D=44mm

WEIGHT(fully loaded)
<3.5kg or equal

WORKING TEMPERATURE
-10 to 55 °Celsius

STORAGE TEMPERATURE
-40 to 70 °Celsius

RELATIVE HUMIDITY
10% to 90%, non-condensing

POWER CONSUMPTION
<80W or equal

PON FEATURES

- ITU-TG.984.x standard
- Maximum 20 Km PON transmission distance
- Access 128 terminals for single fiber PON
- Uplink and downlink triple churning encrypted function with 128Bits
- ONU terminal legitimacy certification, report illegal ONU registration
- Standard OMCI management function
- PON port optical power detection

L2 FEATURES

MAC

- MAC black hole
- Port MAC limit
- 64K MAC (packet exchange chip cache 2MB, external cache 720 MB)

VLAN

- 4K VLAN entries
- Port-based/MAC-based/protocol/ IP subnet-based
- QinQ and flexible QinQ (StackedVLAN)
- VLAN Swap and VLAN Remark
- PVLAN to realize and saving public-vlan resources

SPANNING TREE

- STP/RSTP, Remote loop detecting

PORT

- Bi-directional band control
- Static link aggregation
- Port mirroring

SECURITY FEATURES

USER'S SECURITY

- Anti-ARP-spoofing
- Anti-ARP-flooding
- MAC address binding to the port and MAC address filtering

SECURITY FEATURES

DEVICE SECURITY

- Security IP login through Telnet
- Hierarchical management and password protection of users

NETWORK SECURITY

- Standard and extended ACL
- Time Range ACL
- Flow classification and flow definition based on source/destination MAC address, VLAN, 802.1p, ToS, DiffServ, source/destination IP(IPv4/IPv6) address, TCP/UDP port number, protocol type, etc
- packet filtration of L2～L7 deep to 80 bytes of IP packet head

QoS

- Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow
- Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark CAR(Committed Access Rate), Traffic Shaping and flow statistics
- Congestion avoid mechanism, including Tail-Drop and WRED

IPv4

- ARP Proxy, DHCP Relay, DHCP Server, Static Routing, RIPv1/v2, OSPFv2, BGPv4

IPv6

- ICMPv6, ICMPv6 Redirection, DHCPv6, ACLv6, Dual stack of IPv6 and IPv4, OSPFv3, RIPng, BGP4

MULTICAST

- IGMPv1/v2/v3, IGMPv1/v2/v3 Snooping, IGMP Filter, and cross VLAN multicast copy, IGMP Fast leave, IGMP Proxy

RELIABILITY

LINK PROTECTION

- RSTP (recover-time <1s)

DEVICE PROTECTION

- 1+1 Power hot backup

MAINTENANCE

NETWORK MAINTENANCE

- Port real-time, utilization and transmit/receive statistic based on Telnet
- GPON OMCI

DEVICE MANAGEMENT

- CLI, Console port, Telnet and WEB
- SNMPv1/v2
- NTP
- Network management