

- **Rich layer 2/3 switching features and flexible management methods**
- **Support multiple link redundancy protocols such as FlexLink / STP / RSTP / MSTP / ERPS / LACP**
- **Support RIP, OSPF, BGP, ISIS and IPV6**
- **Safe DDoS and virus attack protection**
- **Support power redundancy backup systems and modular power supplies**
- **Support power failure alarm systems**
- **Type C management interface**



Overview

Technetix' MIRA-GPON-OLT is a medium capacity GPON OLT that is highly integrated and suitable for operators, ISPs, enterprises, and park applications. Compliant with the ITU-T G.984/G.988 technical standard, it offers good openness, strong compatibility, high reliability, and comprehensive software functions. This product is ideal for a wide range of applications including operators' FTTH access, VPN, government and enterprise park access, campus network access, and more.

The MIRA-GPON-OLT is a 1RU device that is simple to install and maintain, making it a space-efficient choice. It allows for mixed networking of various types of ONUs, providing operators with a cost-effective solution.

MIRA-GPON-OLT device and performance specifications

Hardware

Parameter	Specification		
	MIRA-GPON-OLT-04P	MIRA-GPON-OLT-08P	MIRA-GPON-OLT-16P
Interface	4x GPON ports	8x GPON ports	16x GPON ports
	4x 10/100/1000MBase-T	4x 10/100/1000MBase-T	8x 10/100/1000MBase-T
	4x 1000MBase-XSFP / 4x 10GE SFP+	4x 1000MBase-XSFP / 4x 10GE SFP+	4x 1000MBase-XSFP / 4x 10GE SFP+
Exchange capacity	105 Gbps	108 Gbps	156 Gbps
Packet forwarding rate	76.632 Mpps	87.792 Mpps	116.064 Mpps
Memory and storage	Memory 2 GB / Storage 8 GB		
Chip solution	Broadcom BCM68 series		
Management port	Console, Type C		
PON	Compliant with ITU-TG.984/G.988 standard		
	20 km physical differential distance, 60 km transmission logical distance		
	1:128 max. splitting ratio		
	Standard OMCI management function		
	Open to any brand of ONT		
Certifications	RoHs, EEE		
Fans	Fixed x2	Fixed x3	Fixed x4

Software

Parameter	Specification
VLAN	Support 4K VLAN
	Support VLAN port-based, MAC and protocol
	Support dual tag VLAN, port-based static QinQ and flexible QinQ
MAC	Support static MAC address setting
	Support black hole MAC address filtering
	Support port MAC address limit
Ring network protocol	Support STP/RSTP/MSTP
	Support ERPS Ethernet ring network protection protocol
	Support loopback detection port
Port control	Support 2-way bandwidth control
	Support port storm suppression
	Support 9K Jumbo ultra-long frame forwarding
Port aggregation	Support static link aggregation
	Support dynamic LACP
	Each aggregation group supports a maximum of 8 ports

Software

Parameter	Specification
Mirroring	Support port mirroring
	Support stream mirroring
ACL	Support standard and extended ACL
	Support ACL policy based on time period
	Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limiting function based on custom business flow
	Support mirroring and redirection functions based on custom business flows
	Support priority marking based on custom service flow
	Support 802.1P, DSCP priority Remark capability
	Support port-based priority scheduling function
	Support queue scheduling algorithms such as SP/WRR/SP+WRR
Safety	Support user hierarchical management and password protection
	Support IEEE 802.1X authentication
	Support Radius & TACACS+ authentication
	Support MAC address learning limit
	Support black hole MAC function
	Support port isolation
	Support broadcast message rate suppression
	Support IP Source Guard
	Support ARP flood suppression and ARP spoofing protection
	Support DOS attack and virus attack protection
Layer 3	Support ARP learning and aging
	Support static route
	Support dynamic route RIP/OSPF/BGP/ISIS
	Support VRRP CLI, Telnet, web, SNMP V1/V2/V3, SSH2.0
System management	Support FTP, TFTP file upload and download
	Support RMON
	Support SNTP
	Support system work log
	Support LLDP neighbor device discovery protocol
	Support 802.3ah Ethernet OAM
	Support RFC1213 SNMP
Support Ping and Traceroute	

Mechanical and environmental specifications

Parameter	Specification		
	MIRA-GPON-OLT-04P	MIRA-GPON-OLT-08P	MIRA-GPON-OLT-16P
Power	AC: 100-240 V, 47/63 Hz; DC: 36-75 V		
Power consumption	65 W		100 W
Temperature	Operating	-15°C to +55°C (+5°F to +131°F)	
	Storage	-40°C to +70°C (-40°F to +158°F)	
Humidity	Operating	10-95%, non-condensing	
	Storage	10-95%, non-condensing	
Dimensions (H x W x D)	1.75"Hx19.0"Wx10.2"D (4.45Hx48.3Wx26.0D cm)		1.75"Hx19.0"Wx12.6"D (4.45Hx48.3Wx32.0D cm)
Weight	11.0 lb (5.0 kg)		14.3 lb (6.5 kg)

Order information

Model code	Description
MIRA-GPON-OLT-4PON	4x PON port, 4x 10GE/GE SFP + 4x GE RJ45 uplink port, dual power
MIRA-GPON-OLT-8PON	8x PON port, 4x 10GE/GE SFP + 4x GE RJ45 uplink port, dual power
MIRA-GPON-OLT-16PON	16x PON port, 4x 10GE/GE SFP + 8x GE RJ45 uplink port, dual power