

WLT-GP-M1 series ONU Integrated T1 Master Device



The **WLT-GP-M1** series device is a triple-play integrated GPON terminal product designed to meet the FTTH optic fiber multi-service access needs of telecommunications and broadcasting operators. This product is based on mature, stable, and cost-effective GPON technology, integrating Gigabit Ethernet switching technology, HFC technology, and Gigabit coaxial transmission technology. It has the characteristics of high bandwidth, high reliability, easy management, and good quality of service (QoS) guarantee.

The **WLT-GP-M1** is an integrated ONU product that integrates Gigabit coaxial transmission function, providing both ONU function based on optic fiber access via PON and practical interface based on Gigabit coaxial transmission technology.

GPON technology is the new generation of broadband passive optical network comprehensive access standard based on the ITU-TG.984x series standards. It has many advantages such as high bandwidth, high efficiency, large coverage range, and rich user interfaces. It is an ideal technology for operators to achieve broadband and comprehensive transformation of access network services. Gigabit coaxial transmission technology is a high-tech technology that achieve Gigabit network transmission functions by traditional coaxial cables.

The **WLT-GP-M1** series device can solve the problems of time-consuming and labor-intensive construction in households, achieve instant installation and communication of large bandwidth services. And it improves the efficiency of bidirectional operation of the entire network and customers' satisfaction. It can also solve problems such as the inability of optic fiber cables to enter households or the difficulty of construction. Based on coaxial technology, Gigabit broadband access can be achieved, effectively improving the bidirectional access rate of the entire network.

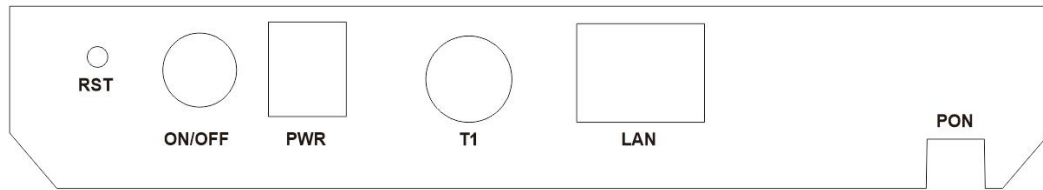
Product Features

- ◇ Fiber optic access, providing various services such as Gigabit broadband and digital CATV.
- ◇ Fully compatible with ITU-T G.984
- ◇ Supports 1*GE adaptive interface
- ◇ Support management methods such as OMCI/TR069
- ◇ Ethernet self-negotiation and MDI/MDIX automatic detection function
- ◇ Supports configuration of Ethernet interface speed, working mode, and Pause flow control
- ◇ Supports 4K VLAN, VLAN tagging processing, stream classification and packet filtering, STP/RSTP protocol, and other functions
- ◇ Supports DHCP Option60
- ◇ Supports multicast/QoS, IGMP Snooping
- ◇ Support dual management mode based on DBA technology and priority

Product Specifications

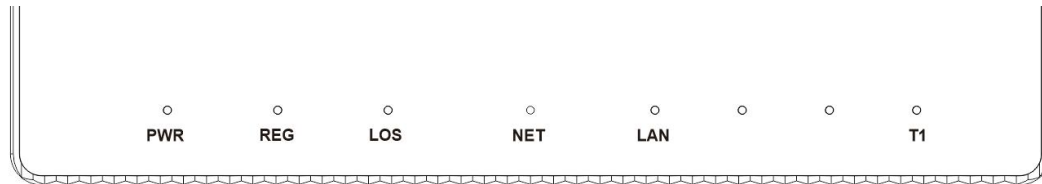
Item	Parameter	Specification
Interface	PON interface	1*GPON port (ITUT G.984.2 standard)
		Downlink rate: 2.488Gbps; Uplink rate: 1.244Gbps
		SC/PC single-mode single-fiber
		Supports 28dB link (Class B+) , The Max. supports 1:128 splitting
	T1 interface	1 coaxial F-type port (Metric/ Imperial optional)
		Supports coaxial transmission over 100 meters via Gigabit network
	LAN interface	1*10/100/1000M self-adaptive Ethernet ports
		Full duplex/half duplex
		RJ45 port, Support cross direct connection self-adaptation
		Transmission distance 100 meters
Power interface	+12VDC power interface	
Performance specifications	PON optical parameters	Wavelength: transmitting 1310nm(Tx), receiving1490nm (Rx)
		Transmitting optical power: 0.5 ~ 5dBm
		Receiving sensitivity: -28dBm
		Saturated optical power: -8dBm
	Data transmission performance	PON port throughput: Downlink>980Mbps; Uplink>950Mbps
		Ethernet port: 1000Mbps or 100Mbps
		Packet loss rate: <1*10E-12
Transmission delay: <1.5ms		
Device Managment	Methods	Support OMCI management based on G.984.4
		Support TR069 remote management and remote upgrade
		Support local WEB/CLI management
	Functions	Status monitoring、 configuration management、 alarms management、 log management
Physical characteristics	Shell	Plastics shell
	Power supply and consumption	External 12VDC/1A power adapter for power supply
		Consumption: <8W
	Dimension and weight	Dimension: 136mm(L) ×102mm(W) ×34mm (H)
		Weight: 0.30kg (Exlcuding power adapter)
	Environmental parameters	Working temperature: -10 ~ 55℃
		Storage temperature: -40 ~ 85℃
		Working humidity: 10% ~ 90% non-condensation
Storage humidity: 5% ~ 95% non-condensation		

Interface Functions Description



RST	The reset button of the device
ON/OFF	Power switch button (with lock)
PWR	DC 12V power input port (connecting power adapter)
PON	PON optical adapter port
LAN	LAN GE Ethernet port
T1	T1 GbE coaxial F-type port

Indicator Lights Description



Identification	Status	Definition
PWR	ON	POWER ON
	OFF	POWER OFF
REG	ON	Optic Fiber access and successful registration
	Flashing	Optic Fiber access but unregistered
	OFF	Optic Fiber not connected
LOS	Slow Flashing	Receiving optical power is too low
	OFF	Receiving optical power is normal
NET	Flashing	WAN network connected and IP address obtained
	OFF	WAN not connected
LAN	ON	Ethernet interface is connected
	Flashing	Ethernet data is transmission
	OFF	Ethernet interface is not in use
T1	ON	GE Coaxial interface is connected
	Flashing	GE Coaxial data is transmission
	OFF	GE Coaxial interface is not in use

◆ Note: Please use the power adapter provided by our factory to ensure the related parameters match the device.