

WLT-GP-M4J ONU Integrated 4*T1 Ports Master Device



WLT-GP-M4J series ONU is a master device that integrates 4*T1 ports. It is a triple-play integrated GPON terminal product designed to meet the FTTB 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.

WLT-GP-M4J 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.

WLT-GP-M4J 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.
- ◇ Single mode optical fiber PON port access, fully compatible with ITU-T G.984
- ◇ Supports four 1000Base-T1 coaxial gigabit LAN ports
- ◇ Supports T1 coaxial port feeding output (optional)
- ◇ Supports WEB network management and remote management methods such as OAM/OMCI/TR069.
- ◇ Provides bridging function from PON port to LAN port, with transparent transmission of services.
- ◇ Supports dual-mode technology and automatically connects to EPON/GPON OLT.

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	4 gigabit coaxial F-type port (Metric/ Imperial optional)
		4 ports support 1000Base-T1 gigabit network coaxial transmission
		Fixed configuration 1000Base-T1 main mode (Master)
	Power interface	External +12VDC power adapter
		DC005 DC power socket 5.5 * 2.1mm
Performance Specifications	PON optical parameters	Wavelength: transmitting 1310nm (Tx), receiving 1490nm (Rx)
		Transmitting optical power: 0.5 ~ 5dBm
		Receiving sensitivity: -28dBm
		Saturated optical power: -8dBm
	Data transmission performance	PON port throughput: Downlink>980Mbps; Uplink>950Mbps
		T1 Gigabit coaxial port: 1000Mbps
		Packet loss rate: <1*10E-12
		Transmission delay: <1.5ms
Device Management	Methods	Support OMCI based on G.984.4, CTC OAM 2.0 and 2.1
		Support TR069 remote management and remote upgrade
		Support WEB/TELNET/CLI management
	Functions	Status monitoring、upgrade management、log management
Physical Characteristics	Shell	All metal shell, aluminum profile, with ears
	Power supply and consumption	Input power voltage range: DC10V~14V
		Consumption: <10W
	Dimension and weight	Dimension (including ears): 155mm (L) ×164mm (W) ×29mm (H)
		Weight: 0.70kg (Excluding power adapter)
	Environmental parameters	Working temperature: -10 ~ 55℃
		Storage temperature: -40 ~ 85℃
		Working humidity: 10% ~ 90% non-condensation
Storage humidity: 5% ~ 95% non-condensation		

Note: (1) SYWV-75-5 coaxial cable is recommended to ensure good crimping of shielding layers at both ends of the cable.

(2) Please use the power adapter provided by our factory to ensure the related parameters match the device.

Front Panel Description



Identification	Status	Definition
POW	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	ON (or flashing)	WAN network connected and IP address obtained
	OFF	WAN not connected
PON		Optical fiber PON adapter connection port
RST		Reset button, built-in touch switch
POWER		DC power input(+12VDC power adapter)

Back Panel Description



T1-1~T1-4	Four 1000Base-T1 coaxial interfaces (1, 2, 3, 4 ports)
LD1~LD4 (LED)	ON: T1 connection is successful Flashing: Data is transmission

Application Scenarios

