

RLG804C GPON ONU

Specifications

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1 OVERVIEW

1.1 Product Positioning

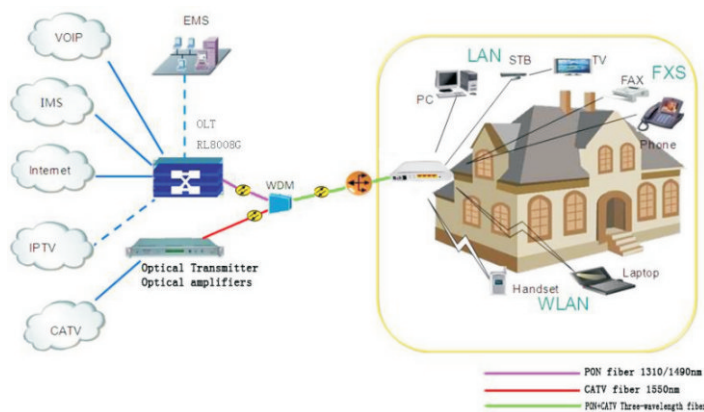
Optical network terminal products RLG804C is launched for the CATV FTTH network construction. The CATV optical receiver of RLG804C with technical features of low optical power received. RLG804C GPON ONU support ITU G.984 series recommendations, support international standards and industry technical standards. With high reliability, better QoS guarantee, manageable, scalable, flexible networking features, can be satisfied with high-speed broadband access needs of the customer of broadcast.



Picture 1-1 RLG804C Appearance

1.2 Network Mode

RLG804C is the FTTH mode terminal equipment which designed for indoor applications, specific application refers to Picture 1-2.

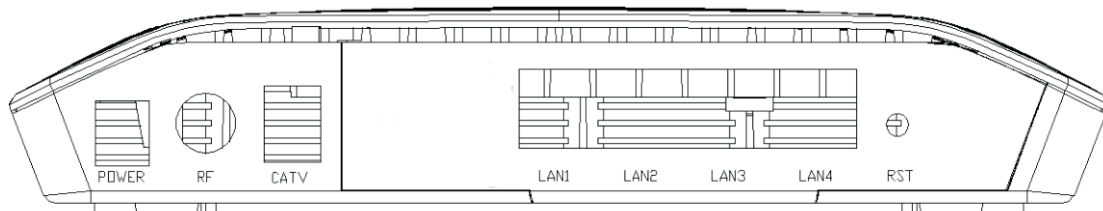


Picture 1-2 RLG804C Products Network diagram

2 HARDWARE FEATURES

2.1 Interface of device

RLG804C equipment interface as Picture 2-1,



Picture 2-1 RLG804C back panel picture

Table 2-1 Description of RLG804C interface

Interface	Description
POWER	DC power adapter, DC12V.
RF	CATV RF output port, connect a TV or set-top box via this interface.
CATV	CATV optical input interface, support SC / APC optical pigtail connector for connecting CATV access networks PON + CATV three wavelength signals.
Unidentified (knob)	RF knob, located in the top port direction which is looked into the cabinet from the left side, the optical machine is used to adjust the RF output level. Adjustable ranges: -18~0dB.
LAN1~LAN4	RJ45 Port connects to local internet, speed 10/100Mbps automatically
RST button	Reset factory button for 5 seconds to reset factory configuration.

2.2 Indicators of device

Table 2-2 RLG804C statement

Indicators	status	Description
POWER	Light on	ONU power supply normally
	Light off	ONU no power supply
TV	Light on	CATV optical receiver output level normal
	Flash	CATV optical receiver output level lower than normal or failure
OPT	Light on	CATV optical receiver signal normal
	Flash	CATV optical signal power rate over normal or

		less than normal status
LOS	Light on	ONUhot received optical signal
	Flash	ONUreceiving power rate lower than optical receiver sensitivity
	Light off	ONUreceiving power rate normal
ETH1~ETH4	Light on	network port linked, but no data transmitting
	Flash	network port data pass
	Light off	ONUho power supply or internet cable unlink
SYS	Light off	PONmodule no power supply
	Green	PONmodule power supply
	Yellow	System start normally

3 TECHNICAL SPECIFICATIONS

3.1 Physical structure, Environment and Electrical parameter

Table 3-1 RLG804Cspecification and working environment

Parameter	Nominal
Measurement	191mm*133mm*34mm(W*L*H)
Net weight	0.5kg
Typical power consumption	<7W
Noise	None
Cooling style	Naturally cooling
Power supply	12V DC (By external AC/DC adapter)
Installation style	Support PC, wall mount or put inside of information box.
Environment	0~45℃
Atmospheric pressure	70~106Kpa
MTBF	50,000hours
MTTR	30minutes
Parameter	Nominal

3.2 GPONSpecifications

Table 3-2 RLG804C GPON specification

Parameter	Nominal
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Fiber style	Single mode
Wavelength	Transmitting end: 1310 +/- 20nm Receiving end: 1490 +/- 10nm
PON interface standard	ITU-T G.984.2/ITU-T G.984.3/ITU-T G.988 Class B+
PON interface receiving rate	1.244Gpbs
PON interface transmitting rate	2.488Gpbs
Output optical power	Min: 0dBm Max: +5dBm
Receiver damage threshold	7dBm
Maximum length of the optical link	Max 20km

3.3 CATV optical receiver specifications

Table 3-3 RLG804C CATV Optical receiver parameter

Item			Unit	Parameter
Optical parameter	Receiving optical wavelength		nm	1200~1650
	Receiving optical power		dBm	-15~+2
	Reflection loss		dB	≥50
	Connector		-	SC/APC
	Fiber type		-	Single mode
	Isolation (WDM)	Forward channel	dB	≥40
		Reflection channel	dB	≥22
RF parameter	Frequency range		MHz	45 ~ 1000
	In-band flatness		dB	±1
	Output reflection loss		dB	≥14
	Nominal output level		dBuV	-75±1 (AGC range: -12~-2dBm)
	Attenuation range		dB	-18~0
	Carrier-to-noise ratio (C/N)		dB	≥46
	(C/CTB)		dB	≥65
	(C/CSO)		dB	≥65
	Output impedance		Ω	75
Others	Power supply (DC)		V	12
	Power consumption		W	≤1.5
	Working temperature		℃	0~+45
	Storage temperature		℃	-40~+75
	Relative humidity		%	Maximum 95% non-condensing