SOFTEL

XPON ONT ONT-2GF-RFW

Product Description

ONT-2GF-RFW is a residential gateway device with routing functions for XPON ONU and LAN Switch for residential and SOHO users, which is in line with ITU-T G.984 and IEEE802.3ah.

The uplink of ONT-2GF-RFW provides one PON interface, while downlink provides two Ethernet and one RF interfaces. It can realize optical access solutions such as FTTH (Fiber To The Home) and FTTB (Fiber To The Building). It fully integrates the reliability, maintainability and security design of carrier-grade equipment, and provides customers with the last kilometer of broadband access to residential and corporate customers.



Technical parameters

Hardware Specifications

PON Interface	Interface Type	SC/PC, CLASS B+	
	Rate	Uplink: 1.25Gbps; Downlink: 2.5Gbps	
User-Side Interface	1*10/100BASE-T;1	*10/100/1000BASE-T; 1*RF interface	
Size (Mm)	167(L)×118(W)×30	167(L)×118(W)×30(H)	
Maximum Power Consumption	<8W		
Weight	200g		
Temperature: $-10^{\circ}C \sim 55^{\circ}C$		c ~ 55°C	
Operating Environment	Humidity: $5\% \sim 95\%$ (no condensation)		
Power Supply	External Power Adapter 12V/1A		
Power Adapter Input	100-240V AC, 50/60Hz		
Power Interface Size	metal inner diameter: φ2.1±0.1mmouter diameter : φ5.5±0.1mm; length: 9.0±0.1mm		
WLAN Module	Internal and external dual antenna, antenna gain 5db, antenna power 16~21dbm		
	Support 2.4GHz, 300M transmission rate		

LED

	State	Color	Descriptions
PWR	Solid	Green	Normal
P W K	Off	Green	No power
	Solid		ONU is authorized
PON	Flash	Green	ONU is Registering
	Off		ONU is not authorized
	Solid		Abnormal
LOS	Flash	Red	In diagnostic mode
	Off		Normal
	Solid	Green	Link UP
LAN 1	Flash		Active(Tx and/or Rx)
	Off		Link down
	Solid		Link UP
LAN 2	Flash	Green	Active(Tx and/or Rx)
	Off		Link down
WIFI	Flash	Green	Normal
	Off		Error/WLAN disable
OPT	Solid	Green	CATV optical signal reception is normal
	Off		CATV optical signal power is abnormal or faulty
RF	Solid	Green	CATV optical machine output level is normal

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		Off		CATV optical machine output level is abnormal or faulty
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Optical machine index parameters

	project	unit	performance parameters	note
Optical parameters	Wavelength of light	nm	1200~1600	
	Optical connector form		SC/APC	Other customizable
	Receiving light power range	dBm	-18~0	Other customizable
	Optical AGC control accuracy	dBm	-15~0	Other customizable
	Frequency range	MHz	47~1000	
	Output rf impedance	Ω	75	
D. 1'	Output flatness	dB	±1.5	
Radio	Number of RF ports		1	
frequency (rf) parameters	Nominal output level	dBuv	≥(75±1.5)	Other customizable
parameters	Output reflection loss	dB	>14	
	МЕР	dB	>31@-15dBm	see*note1
	MER		>34@-9dBm	
	C/N	dB	>51	
	СТВ	dBc	>65	GYT143-2000
	CSO	dBc	>61	
Link indicators	Working temperature	°C	-10~+60	
	Storage temperature	°C	-40~+80	
	Working humidity		20%~90%	
	Store humidity		10%~95%	
	Dustproof requirements		《YD/T1475-2006》	
	MTBF	Н	40000H	

*note1: The test conditions are 59 analog channels and 38 digital channels.

Software Characteristic(GPON)

Standard Compliance	Comply with ITU-T G.984/G.988 Comply with IEEE802.11b/g/n Comply with China Telecom/China Unicom GPON Interoperability Standard
CDON	
GPON	Support for the ONT registration mechanism

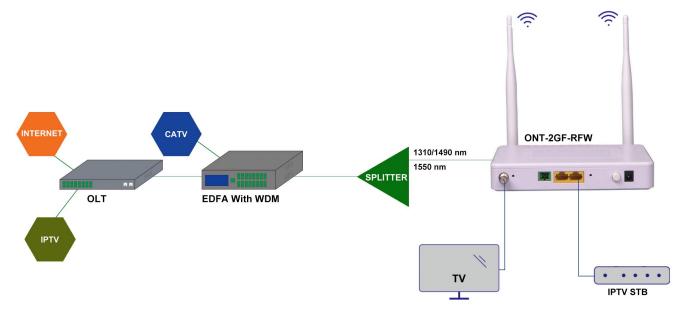
HANGZHOU SOFTEL OPTIC CO., LTD

ADD:708-709 HAIWEI BUILDING, No.101 BINKANG ROAD ,BINJIANG DISTRICT, HANGZHOU,ZHEJIANG,CHINA TEL:+86 571 88989381 FAX:+86 571 88983280 Web : www.softel-optic.com

	Support DBA		
	Support FEC		
	Support link encryption		
	Supports the maximum effective transmission distance of 20 km		
	Support long illuminating detection and optical power detection		
Multicast IGMP V2 Proxy/Snooping			
	Support WPA2-PSK/WPA-PSK encryption		
	Support client isolation		
WLAN	Support for 4 * SSID		
	Support for 802.11 BGN mode		
	Support maximum rate of 300M		
	Support web management		
Management & Maintenance	Support CLI/Telnet management		
	Support port loopback detection		
Compatibility	Support the connection with the business competitor's OLT and its proprietary protocols, including Huawei, H3C, ZTE, BDCOM, RAISECOM, and so forth.		

Software Characteristic(EPON)

Standard	Comply with IEE802.3ah EPON		
Compliance	Comply with China Telecom/China Unicom EPON Interoperability Standard		
	Support for the ONT registration mechanism		
	Support DBA		
EPON	Support FEC		
EFUN	Support link encryption		
	Supports the maximum effective transmission distance of 20 km		
	Support long illuminating detection and optical power detection		
Multicast	IGMP V2 Proxy/Snooping		
	Support WPA2-PSK/WPA-PSK encryption		
	Support client isolation		
WLAN	Support for 4 * SSID		
	Support for 802.11 BGN mode		
	Support maximum rate of 300M		
	Support web management		
Management & Maintenance	Support CLI/Telnet management		
	Support port loopback detection		
Compatibility	Support the connection with the business competitor's OLT and its proprietary		
Compatibility	protocols, including Huawei, H3C, ZTE, BDCOM, RAISECOM, and so forth.		



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