

PRODUCT DATA SHEET

XPON Dual band ONT Datasheet 4GE+2POTS+WIFI (2.4G)

Overview

NTFGN-04GS-2VW is a 4ethernet port and 2 VoIP port broadband home gateway device for FTTH solution. EPON/GPON technology has been adopted to provide UWB access for Family/Enterprise's User, Strong data processing capability, provides quality experience for the Internet, HD video and VoIP services.

Functional Feature

Product follow IEEE 802.3ah (EPON), G.984 (GPON) international standard, People's Republic of China communication industry standard (YD/T 1475-2006) , And China Telecom PON equipment technical requirements Good interoperability and operability. It can achieve interconnection and interoperability with OLT equipment of the mainstream manufacturers in the industry. Integrate 2.4G 2*2 300Mbps (802.11n) WiFi Function, provide high-speed wireless network access for mobile devices.

Configuration is convenient, plug-and-play, network management can automatically distribute network business configuration, can also be through the local Web page for business configuration, conducive to efficient operation and maintenance;

Built in three-layer routing and local gateway, provide all kinds of high level protocol data processing functions.

Customized functions, software functions can be customized according to business needs, help network operation and development;

Data Services

The ONT is delivered with 10/100,10/100/1000 Base-T interface, supporting:

Auto-negotiation and MDI/MDIX auto-sensing

Built-in layer-2 switch

Advanced data features such as VLAN tag manipulation, classification, and filtering

Video Services

The ONT supports video contents delivered in the form of data (by multicast or unicast).

Voice Services

The models with voice port can support voice transmission services.

GPON Interface

Compliant with ITU-T G.984 GPON standards

BoSA on board optical solution

1.244Gbps Burst Mode Upstream Transmitter

2.488 Gbps Downstream Receiver

Compliant with ITU-T G.984.2Amd1, Class B+

Wavelengths: US 1310nm, DS 1490nm

Multiple T-CONTs per device

Multiple GEM Ports per device

Flexible mapping between GEM Ports and T-CONT

Activation with automatic discovered SN and password in conformance with ITU-T G.984.3

AES-128 Decryption with key generation and switching

FEC (Forward Error Correction) in both directions

DBA reporting by piggyback reports in the DBRu (mode 0 and mode 1)

Mapping of GEM Ports into a T-CONT with priority queues based scheduling

Support Multicast GEM port and incidental broadcast GEM port.



Ethernet Interface

Ethernet port auto negotiation or manual configuration

MDI/MDIX automatically sense

Virtual switch based on 802.1Q VLAN

VLAN tagging/detagging per Ethernet port

OAM

Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988

Alarming and performance monitoring

Remotely software image download over OMCI, as well as activation and rebooting

Hold two software sets with software image integrity checking and automatic rollback

Hardware Specification

Technical item	Details
PON Interface	1 G/EPON port (EPON PX20+ and GPON Class B+)
	Receiving sensitivity: =-27dBm
	Transmitting optical power:0~+4dBm
	Transmission distance:20KM
Wavelength	TX: 1310nm, RX:1490nm
Optical Interface	SC/PC Connector
POTS interface	2 FXS, RJ11connector Support: G.711/G.723/G.726/G.729codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay Line testing according toGR-909
LAN Interface	4 x 10/100/1000Mbps Ethernet interfaces. Full/Half, RJ45connector
Wireless	Compliant withIEEE802.11b/g/n, IEEE802.AC
	Operating frequency:2.400-2.4835GHz/5GHZ
	support MIMO, rate up to300Mbps/867Mbps
	2T2R,2 external antenna5dBi,
	Support: multiple SSID
	Channel: Auto
LED	12, For Status of POWER, LOS, PON, SYS, LAN1-4, WIFI, WPS, Internet, FXS
Push-Button	3, For Function of Reset, WLAN, WPS
Operating Condition	Temperature: 0? ~+50?
	Humidity:10%~90% (non-condensing)
Storing Condition	Temperature: -30? ~+60?
	Humidity:10%~90% (non-condensing)
Power Supply	DC12V/1A
Power Consumption	=8W
Dimension	195mm×130mm×30mm (L×W×H)
Net Weight	0.35Kg

Panel lights Introduction

Pilot Lamp	Status	Description
PWR	On	The device is powered up.
	Off	The device is powered down.
PON	On	The device has registered to the PON system.
	Blink	The device is registering the PON system.
	Off	The device registration is incorrect.
LOS	Blink	The device does not receive optical signals.
	Off	The device has received optical signal.
SYS	On	The device system runs normally.
	Off	The device system runs abnormally.
WIFI	On	The WIFI interface is up.
	Blink	The WIFI interface is sending or/and receiving data(ACT).
	Off	The WIFI interface is down.
WPS	Blink	The WIFI interface is securely establishing a connection.
	Off	The WIFI interface does not establish a secure connection.
FXS1-2	On	Phone has registered to the SIP Server.
	Blink	Phone has registered and data transmission (ACT).
	Off	Phone registration is incorrect.
LAN1~LAN4	On	Port (LANx) is connected properly (LINK).
	Blink	Port (LANx) is sending or/and receiving data (ACT).

Application

Typical Solution: FTTO(Office) FTTB(Building), FTTH(Home)

Typical Business: INTERNET, IPTV, VOD, Voip, IP Camera

Ordering information

Product Name	Product Model	Descriptions
GPON ONT	NTFGN-04GS-2VW	4*GE+2POTS+WIFI(2.4G)