# Technical Data Sheet
## XPON CATV ONU SUBSCRIBER UNIT

**PRODUCT CODE**
NTPL-XPON1GFER

## Technical Parameter-NTPL-XPON1GFER

## 1. Overview

- ■ XPON ONT series is designed as HGU (Home Gateway Unit) in deferent FTTH solutions, the carrier- class FTTH application provides data service access.
- ■ XPON ONT series is based on mature and stable, cost-effective XPON technology. It can switch automatically with EPON and GPON when it accesses to the EPON OLT or GPON OLT.
- ■ XPON ONT series adopts high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of the module of China Telecom EPON CTC3,0 and GPON Standard of ITU-TG.984.X
- ■ XPON ONT series is designed by Realtek chipset 9603C

## 2. Functional Feature

- ■ Support EPON and GPON, and switch mode automatically
- ■ Support ONU auto-discovery/Link detection/remote upgrade of software
- ■ WAN connections support Route and Bridge mode
- ■ Route mode supports PPPoE/DHCP/ static IP
- ■ Support QoS and DBA
- ■ Support port Isolation and port vlan configuration
- ■ Support Firewall function and IGMP snooping multicast feature
- ■ Support LAN IP and DHCP Server configuration;
- ■ Support Port Forwarding and Loop-Detect
- ■ Support TR069 remote configuration and maintenance
- ■ Support CATV interface for Video Service
- ■ Specialized design for system breakdown prevention to maintain stable system

# 3. Hardware Specification

| Technical item | Details |
| --- | --- |
| PON Interface | 1 G/EPON port(EPON PX20+ and GPON Class B+) Receiving sensitivity: ≤-27dBm<br><br>Transmitting optical power: 0~+4dBm<br><br>Transmission distance: 20KM |
| Wavelength | Tx: 1310nm, Rx: 1490nm |
| Optical Interface | SC/APC Connector |
| LAN Interface | 1 x 10/100/1000Mbps and 1 x 10/100Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector |
| CATV Interface | RF, optical power : +2~-18dBm Optical reflection loss: ≥45dB<br><br>Optical receiving wavelength: 1550±10nm<br><br>RF frequency range: 47~1000MHz, RF output impedance: 75Ω RF output level: 78dBuV<br><br>AGC range: 0~-15dBm<br><br>MER: ≥32dB@-15dBm |
| LED | 13, For Status of POWER, LOS, PON, SYS, LAN1~LAN2 ,WIFI, WPS, Internet, Worn, Normal(CATV) |
| Push-Button | 3,For Function of Reset, WLAN, WPS |
| Operating Condition | Temperature: 0℃~+50℃<br><br>Humidity: 10%～90%（non-condensing） |
| Storing Condition | Temperature: -30℃~+60℃<br><br>Humidity: 10%~90%（non-condensing） |
| Power Supply | DC 12V/1A |
| Power Consumption | ≤6W |

| Dimension | 155mm×90mm×25mm（L×W×H） |
|---|---|
| Net Weight | 0.24Kg |

## 4. 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 doses not receive optical signals. |
| | Off | The device has received optical signal. |
| SYS | On | The device system runs normally. |
| | Off | The device system runs abnormally. |
| INTERNET | Blink | The device network connection is normal. |
| | Off | The device network connection is abnormal. |
| WPS | Blink | The WIFI interface is securely establishing a connection. |
| | Off | The WIFI interface does not establish a secure connection. |
| LAN1~LAN2 | On | Port (LANx) is connected properly (LINK). |
| | Blink | Port (LANx) is sending or/and receiving data (ACT). |
| | Off | Port (LANx) connection exception or not connected. |
| Worn (CATV) | On | Input optical power is higher than 3dbm or lower than -13dbm |
| | Off | Input optical power is between -13dbm and 3dbm |
| Normal (CATV) | On | Input optical power is between -13dbm and 3dbm |
| | Off | Input optical power is higher than 3dbm or lower than -13dbm |

| | **NEPS Technologies Private Limited** |
|---|---|
| | Website : www.nepstech.co.in |