

XPON ONU 1G3F+WIFI Datasheet



1. Overview

- AIS-ON3W1X is designed as HGU (Home Gateway Unit) in different FTTH solutions by AIS, The carrier-class FTTH application provides data service access.
- AIS-ON3W1X is based on mature and stable, cost-effective XPON technology. It can switch automatically with EPON and GPON when it access to the EPON OLT or GPON OLT.
- AIS-ON3W1X 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.984.2
- AIS-ON3W1X is designed by Realtek chipset 9603C

2. Functional Feature

- Support EPON/GPON mode and switch mode automatically
- Support ONU auto-discovery/Link detection/remote upgrade of software
- WAN connections support Route and Bridge mode
- Support Route mode for PPPoE/IPoE/Static IP and Bridge mode
- Support WIFI Interface, 2*2 MIMO and multiple SSID

- Support QoS and DBA
- Support port Isolation and port vlan configuration
- Support Firewall function and IGMP snooping/Proxy multicast feature
- Support LAN IP and DHCP Server configuration
- Support Port Forwarding and Loop-Detect
- Support TR069 remote configuration and maintenance
- 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+) TX: 1.244 Gbit/s RX: 2.488 Gbit/s Receiving sensitivity: ≤-27dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM
Wavelength	TX: 1310nm, RX: 1490nm
Optical Interface	SC/UPC Connector
LAN Interface	1 x 10/100/1000Mbps and 3 x 10/100Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector Max transfer unit. Default Value (in Byte): 1500(static/DHCP) or 1492(PPPoE).
Wireless	Compliant with IEEE802.11b/g/n, 4 SSID Operating frequency: 2.400-2.4835GHz WMM WPS Enable support 2*2 MIMO, rate up to 300Mbps, Air interface rate > 100 Mbps 2T2R,2 external antenna 5dBi, Support: Multiple SSID Channel: Auto &1-13 Modulation type: DSSS, CCK and OFDM Encoding scheme: BPSK, QPSK, 16QAM and 64QAM Encryption : WEP,WPA/WPA2 Personal, WPA/WPA2 Enterprise, AES or TKIP
LED	11 LED, For Status of WIFI、 WPS、 PWR、 LOS、 PON、 LAN1~LAN4、 Worn、 Normal
Push-Button	3,For Function of Reset, WLAN, WPS
Operating Condition	Temperature: 0°C~+50°C Humidity: 10%~90% (non-condensing)
Storing Condition	Temperature: -30°C~+60°C Humidity: 10%~90% (non-condensing)
Power Supply	DC 12V/1A
Connector	SC-UPC

Power Consumption	≤6W
Dimension	180mm×110mm×30mm (L×W×H)
Net Weight	0.34Kg

4. Panel lights Introduction

Pilot Lamp	Status	Description
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.
PWR	On	The device is powered up.
	Off	The device is powered down.
LOS	Blink	The device does not receive optical signals.
	Off	The device has received optical signal.
PON	On	The device has registered to the PON system.
	Blink	The device is registering the PON system.
	Off	The device registration is incorrect.
LAN1~LAN4	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.
Normal	On	Input optical power is between -13dbm and 3dbm

5. Application

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

Typical Business: INTERNET, IPTV, IP Camera, WIFI

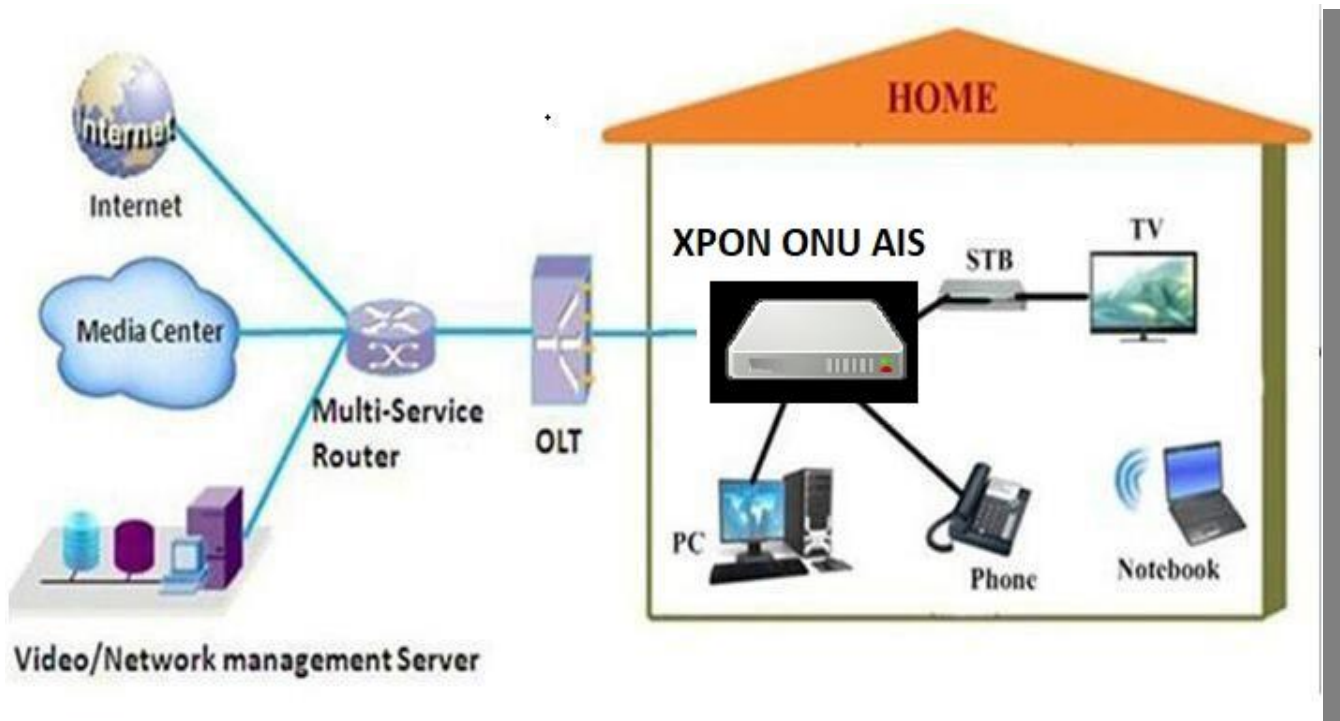


Figure: AIS-ON3W1X Application Diagram

6. Ordering information

Product Name	Product Model	Descriptions
AIS-ON3W1X	1G3F+WIFI	1x10/100/1000Mbps Ethernet, 3 x 10/100Mbps Ethernet , 1 SC/UPC Connector, 2.4GHz WIFI, Interface ,Plastic Casing, External power supply adapter

REV:	A
DATE:	June 5, 2020
Write by:	PT. Sarana Jaringan Indonesia
Address	Pamulang Permai II, JL. Benda Timur VI Blok F 31 No.13 , Benda Baru- Pamulang , Kota Tangerang Selatan- Banten 15433
Contact :	Mail : admin@saranajaringan.id Phone : +62 813 1711 8712