

FOH-200-XGS-MAX PON Tester



Description:

With the upgrade of GPON networks to XG(S)-PON, we have launched the new FOH-200XGS-MAX to apply for the installation and maintenance testing of the upgraded Combo PON network. By connecting FOH-200XGS-MAX in series to the PON network, we can quickly and accurately extract OLT and ONU information, suitable to test GPON and XG(S)-PON at the same time.

Features:

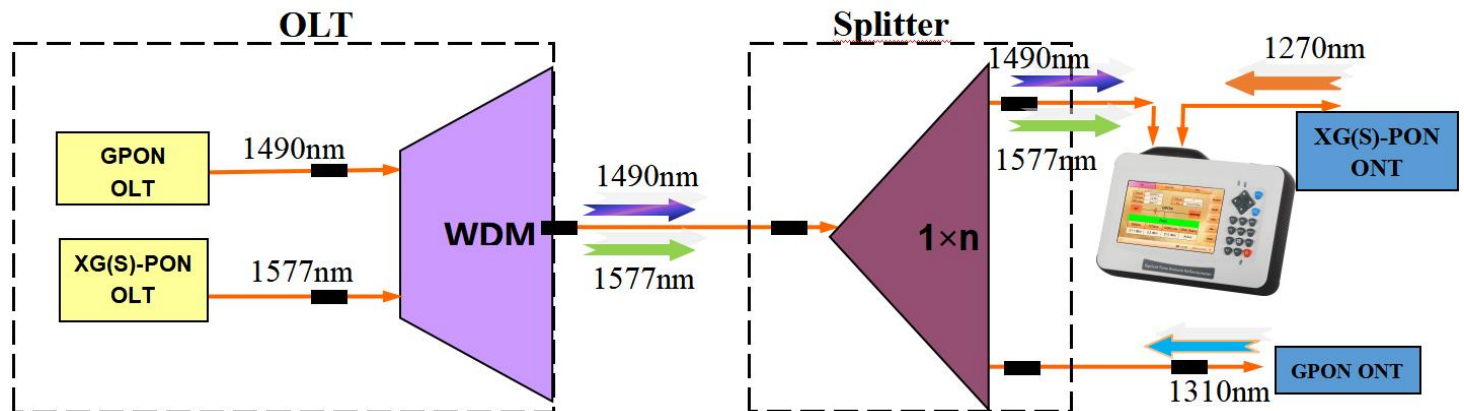
- 1) Automatic PON-ID detection including OLT PON-ID, ODN class, Tx power and ODN link pass/fail per ITU-T
- 2) ONU/ONT ID and serial number, ONU status identification(Including detection of Offline ONU and NO ONU)
- 3) PON resource check and mapping function
- 4) Downlink 1490nm/1577nm and uplink 1270nm/1310nm optical power measurement and judgement
- 5) Test mode: two optical ports pass through mode, low insertion loss <1.5dB (typical)
- 6) Compatible with GPON, EPON, XG(S)-PON, 10G-EPON(coming soon) network
- 7) 20dB OTDR function
- 8) 5 inch touch screen
- 9) Bluetooth connection with phone app
- 10) Low power consumption for extended continuous use
- 11) Support 20W quick charger

Applications:

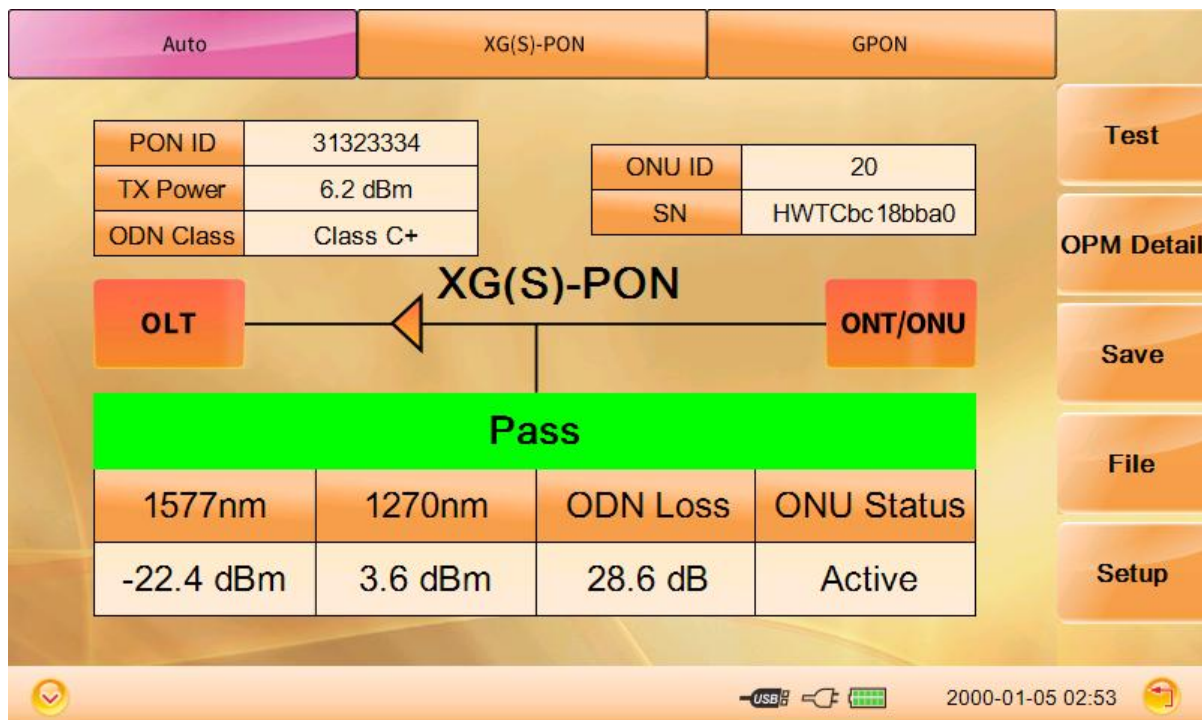
Automatic OLT and ONU information analysis for Combo G/XGS-PON

FOH-200XGS-MAX analysis extracts specific data carried in the G-PON & XGS-PON standardized by ITU-T G.984.3

Amendment 3, including OLT PON-ID, ODN class, Tx power and ONU/ONT ID and serial number



- ★ PON ID and ONU SN identification to help technicians do the PON network mapping and organization when maintenance.
- ★ Supports co-existence of G & XGS-PON on the same PON for migration to 10G services
- ★ Easy to use, Dual ports pass through test mode and automatically recognize network types



ONU status identification

- 4 types ONU status identification: ONU Active, UnRegistered, Alien, Rogue

Auto XG(S)-PON GPON

PON ID	31323334	ONU ID	20
TX Power	6.2 dBm	SN	HWTCbc18bba0
ODN Class	Class C+		

OLT — XG(S)-PON —> ONT/ONU

Pass

1577nm	1270nm	ODN Loss	ONU Status
-22.4 dBm	3.6 dBm	28.6 dB	Active

Test OPM Detail Save File Setup

2000-01-05 02:53

Auto XG(S)-PON GPON

PON ID	31323334	ONU ID	
TX Power	6.2 dBm	SN	
ODN Class	Class C+		

OLT — XG(S)-PON —> ONT/ONU

Fail

1577nm	1270nm	ODN Loss	ONU Status
-22.4 dBm	0.0 dBm	28.6 dB	Alien

Test OPM Detail Save File Setup

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Auto XG(S)-PON GPON

PON ID	1234567	ONU ID	
TX Power	5.9 dBm	SN	ZTEGc8391240
ODN Class	Class C+		

OLT — GPON —> ONT/ONU

Fail

1490nm	1310nm	ODN Loss	ONU Status
-20.6 dBm		26.5 dB	UnRegistered

Test OPM Detail Save File Setup

2000-01-05 02:54

PON Resource Check and Mapping Function

The FOH-200XGS-MAX supports creating PON resource tables based on on-site conditions and conducting tests one by one. This will help on-site engineers accurately detect the ONU detail information and status after the tray port.

- For online ONU, downlink/uplink power level, PON ID and ONU ID/SN can be displayed
- For non online ONU, downlink power and PON ID can be displayed, also It can be determined whether the ONU is offline(power off) or No ONU connected at all.

Finally, a complete PON resource information table can be export as CSV format.

Ports: 64 Table Name: Default_Table_Name

Back

Load

Save

Settings

Port 1

Mark

Vacant

Occupied Test

PON Resource Table

Ports: 64 Table Name: Default_Table_Name

Back

Load

Save

Settings

Port 1 Detail

PON ID	123456
TX Power	+6.5 dBm
ODN Class	Class A
1577 nm	-20.0 dBm
1270 nm	+3.0 dBm
ODN Loss	26.5 dB
No/Total	1 / 1
ONU ID	10
SN	HWTC11223344
ONU Status	Active

Online ONU detail

Offline ONU

G/XG(S)-PON Power level and ODN link loss measurement

- Automatically recognize network types between GPON and XG(S)-PON
- Downlink 1490nm/1577nm and uplink 1270nm/1310nm optical power measurement and judgement
- In-service ODN insertion loss measurement, enables techs and installers to ensure that the end-to-end optical loss of the PON is within specification when proceeding with an installation or maintenance according to ITU-T standard

Item	Threshold
SN Format	ASCII
Pon ID Format	Hex
Standard	ITU-T
ODN Class	Class C+
U/S Lower	3.0
U/S Upper	8.0
D/S Lower	-27.0
D/S Upper	-8.0
ODN Loss	32.0

Buttons: Gpon, System Setting, Reset, Quit

Footer: XGS Setup, 2000-01-05 02:59

XG(S)-PON D/S 1490nm	XG(S)-PON U/S 1310nm
Pass	Pass
-22.4 dBm	3.7 dBm
Fail Lower Lthreshold: -27.0 dBm Upper Threshold: -8.0 dBm Over	Fail Lower Lthreshold: 3.0 dBm Upper Threshold: 8.0 dBm Over
ODN Loss	
Pass	
28.6 dB	
Upper Threshold: 32.0 dB	

Buttons: Quit

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20dB OTDR function(Coming soon)

The FOH-200XGS-MAX equip with 20dB 1650nm OTDR which support live fiber testing, with execllent 1m/4m deadzone.

1550nm is optional if there is no need to do live fiber test.



Bluetooth connection with phone app

The FOH-200XGS-MAX supports Android mobile applications, allowing for direct synchronization and display of test results through bluetooth connection. On phone application, technicians can easily generate PDF test reports on-site and send it to the customer or the systems.

FOH-200-XGS-MAX

Connect to Bluetooth

Disconnect Bluetooth

AUTO

XG(S)-PON

G-PON

PON ID

ABCD

TX POWER

6.1dBm

ODN CLASS

Class C+

ONU ID

20

SN

HWTCbc18bb a0

OLT

XG(S)-PON

ONU ONT

PASS

1577nm

1270nm

ODN Loss

ONU Status

-22.6dBm

4.3dBm

28.7dBm

Active

Detail

Export to PDF

Save

Home

Settings

Mobile Phone APP

FOH-200-XGS-PRO

TEST RESULT

Thu Sep 28

13:30:00

GMT+08:00

2023

PASS

Results

ONU INFO

Status

5a544547ca19556d

Type

G-PON

ONU_ID

1

SN

Active

OLT INFO

Type

G-PON

PON-ID

31323334353637

TX Power

6.0 dBm

ODN Class

ClassC+

Measurement Results

U/S 1310nm

2.3 dBm

PASS

D/S 1490nm

-14.9 dBm

PASS

ODN Loss

20.9 dB

PASS

ONU Status

Active

PASS

Settings

Type

G-PON

Standard

ITU-T

ODN Class

ClassC+

U/S Lower Threshold

0.5 dBm

U/S Upper Threshold

5.0 dBm

D/S Lower Threshold

-32.0 dBm

D/S Upper Threshold

-12.0 dBm

OND Loss

32.0 dB

System Message

Device SN

E1FHA0001

PDF Report Generation

Specifications:

Items	Specifications
Applicable Network	XG(S)-PON, GPON, 10G-EPON, EPON
Test Mode	Series connect: Two ports pass through mode
Insertion loss	<1.5dB insertion loss
PON Data Parsing	OLT information: OLT PON ID, ODN class, Tx power ONU information: ONU ID, ONU SN
Power Measurement	Downlink: 1490nm and 1577nm Uplink: 1270nm and 1310nm
OTDR function	Dynamic range: 20dB; Wavelength:1650nm(1550nm is optional) Deadzone:1m/4m
Optical Interface	SC/APC*2
Charging Port	USB Type-C charging port 20W Quick Charger
Export Format	CSV, PDF
Power Supply	5000mAh lithium battery
Working Temp	-10℃~50℃
Humidity	5%~95%(no condensation)
Dimension	195×141×44mm
Weight	900g
Display	5-inch touch screen
Wireless	Bluetooth connection with Android phone app

*Product specifications and descriptions are subject to change without prior notice.