XG(S)-PON分析儀(具OTDR)

FOH-200XGS-MAX PON Tester

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
3、 Downlink 1490nm/1577nm and uplink 1270nm/1310nm optical power measurement and judgement
4、 Test mode: two optical ports pass through mode, low insertion loss <1.5dB (typical)
5、 Compatible with GPON and XG(S)-PON network
6、 Support export PDF test report from machine directly
7、 5 inch touch screen
8、 Bluetooth connection with phone app
9、 Low power consumption for extended continuous use
10、 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
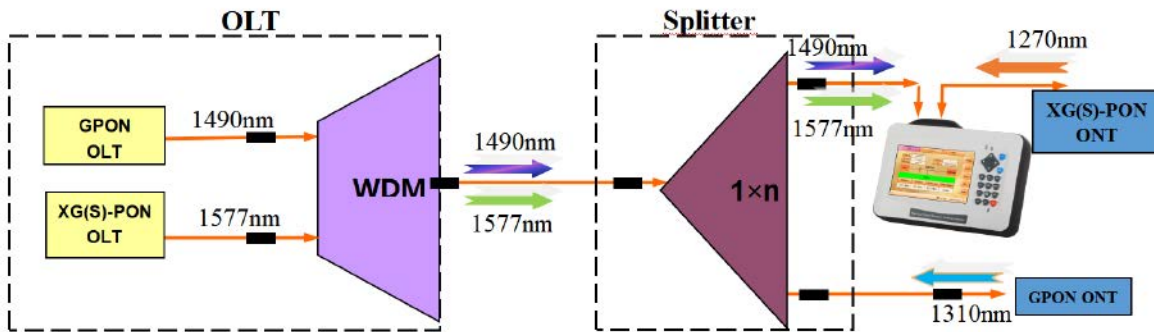
★ PON ID and ONU SN identification to help technicians do the PON network mapping and organization when maintenance.

★ 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

Auto	XG(S)-PON	GPON

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

ONU ID	20
SN	HWTCbc18bba0

XG(S)-PON

OLT ◁ 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

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ONU status identification

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

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

ONU ID	20
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XG(S)-PON

OLT ◁— 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
TX Power	6.2 dBm
ODN Class	Class C+

ONU ID	
SN	

XG(S)-PON

OLT ◁— 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
TX Power	5.9 dBm
ODN Class	Class C+

ONU ID	
SN	ZTEGc8391240

GPON

OLT ◁— ONT/ONU

Fail

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

Test · OPM Detail · Save · File · Setup

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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

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.

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

FOH-200XGS-MAX Tester

- Automatic PON-ID detection including OLT PON-ID, ODN class, Tx power, power level and ODN link pass/fail per ITU-T
- ONU/ONT ID and serial number, ONU status identification(Including detection of Offline ONU and NO ONU)
- PON resource check and mapping function
- Support 20dB OTDR function
- Downlink 1490/1577nm and uplink 1270/1310nm power measurement and judgement
- Compatible with GPON, EPON, XG(S)-PON and 10G EPON
- Bluetooth connection with phone app
- Low power consumption for extended continuous use, support 20W quick charger
- Support generating test reports on site

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: 1490mm 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 charge
Power Supply	5000mAh lithium battery; Input: 5V/2A
Display	5 inch touch screen
Wireless	Bluetooth connection with Android phone app
Data Storage	16G TF Card
Working Temp	-10℃~50℃
Humidity	5%~95%(no condensation)
Dimension	195×141×44mm
Weight	900g

Notes：

The OLT infomration extraction needs to be activated in GPON OLT according to ITU-T G.984.3 Amd3