

EP80A PON Protocol Analyzer

Key Benefits

- Multi-purpose PON OLT; supports EPON & GPON projects
- Simplify resource-verification workflow
- Detect long-term arrearage users
- View test results on mobile device or operator server, and receive data feedback
- Includes multi-λ OPM, light source, and PON-OPM (optional), reducing the need for multiple devices
- Read ID codes under existing authentication mode
- Highly customizable to suit your test needs
- Test anywhere, anytime with ultra-portable design and more than 18 hours of battery life



Overview

The EP80A is a handheld PON protocol analyzer and OLT (Optical Line Terminator), allowing users to read PON ONU authentication codes and ensure the stable operation of PON networks.

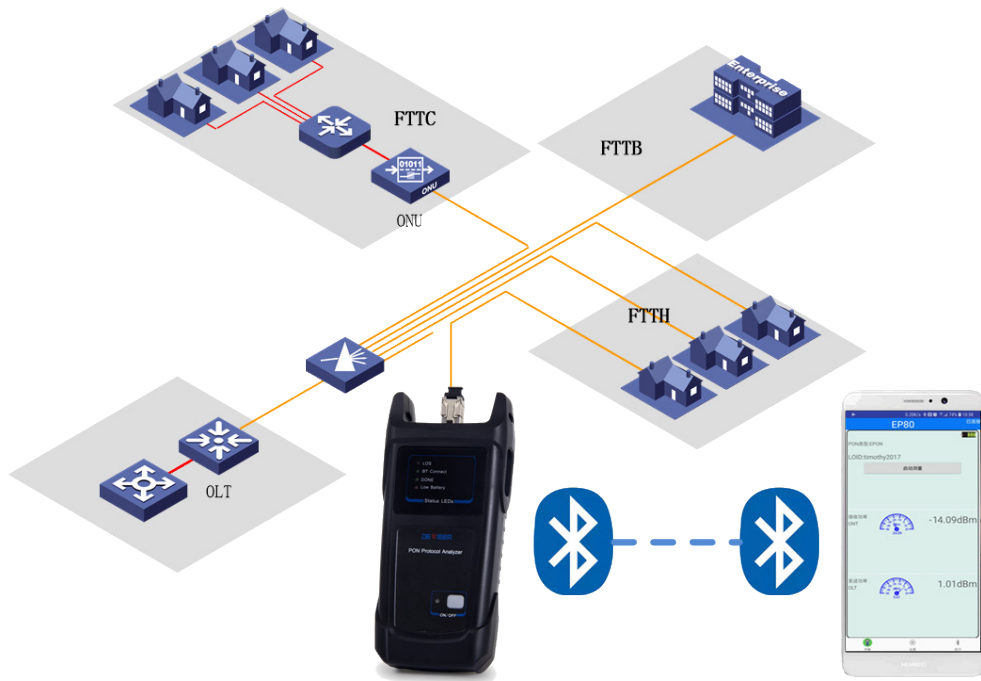
In modern EPON and GPON configurations, an OLT permits or denies ONT access based on one of several common authentication methods. These methods generally involve passwords, SNs, and LOID (Logical Identity) checks. Although the specific method differs from network to network, users can always be uniquely identified by their authentication code.

Enter the EP80A. This tool analyzes the code carried by a user-side ONU device, pinpointing the user's data in the operator's network management system and greatly simplifying resource verification. The EP80A has a number of custom options that expand its toolkit even more, including PON-OPM and smartphone controls.

Main Applications

- Instantly check user-end ONU status
- Display info and access optical tools with one device
 - Read ONU SN, password, and/or LOID
 - Identify device manufacturer
 - Use optical network tools
 - Choose VFL and 8-wavelength OPM, or PON-OPM
- Data upload / status feedback from mobile app and operator server





The EP80A is a powerful tool for multiple FTx, EPON, GPON applications. Bluetooth compatibility allows direct control from over 10 meters away.



Data Upload & Status Feedback

Perform resource verification with total administrative access. You can use the Deviser EP80A mobile app with any smartphone to remotely trigger tests, check results, update databases, and determine the user's status (e.g., service open or in arrearage).

You can operate the optical power meter and visual fault locator / light source or PON-OPM, view the SN, password, LOID, and MAC address of user-side ONUs, and more.

Even if the test interface is unavailable or the mobile app has not been installed, the EP80A can work with similar system maintenance mobile apps with basic functionality. Customize your use to suit your unique test and maintenance needs.

Specifications

Optical Parameters					
Test functions		ONT State; ONT Information; Upstream/Downstream Power			
Visual fault locator (VFL) power		1mW			
Optical interface	PON test	SC/PC			
	OPM & VFL	FC/PC			
Optical power meter (OPM)	Dynamic range	-70 ~ +10dBm			
	Wavelength	850 / 980 / 1300 / 1310 / 1490 / 1550 / 1625 / 1650nm			
	Accuracy	± 0.23dB (± 5%)			
PON optical power meter (PON-OPM)*	Wavelength	1310nm	1490nm	1550nm	
	Power range	CW	-45 ~ +10dBm	-45 ~ +12dBm	-45 ~ +25dBm
		Burst	-30 ~ +8dBm		
	Spectral frequency band	1260 ~ 1360nm	1480 ~ 1500nm	1540 ~ 1560nm	
	Straight-through insertion loss	< 1.5dB			
	Power accuracy	< 0.5dB			
	ORL	-55dB			
	Polarization loss	< ±0.25dB			
Resolution	0.1dBm, dB, mW, μW, nW				

* OPM/VFL and PON/OPM are mutually exclusive options. Choose one at time of purchase.

General	
Bluetooth transmission range	>10m
Power supply	Rechargeable lithium battery & external power supply
Operating time	>18 hours on full charge
Operating temperature	-10 ~ +60°C
Storage temperature	-40 ~ +70°C
Dimensions (LxWxH)	7.3" x 3.3" x 1.8" (185mm x 85mm x 45mm)
Weight	< 11 oz (< 0.3kg)

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