

SAT-7E

PON Optical Power Meter

AITELONG
Keeping your system safe and running



Key Features

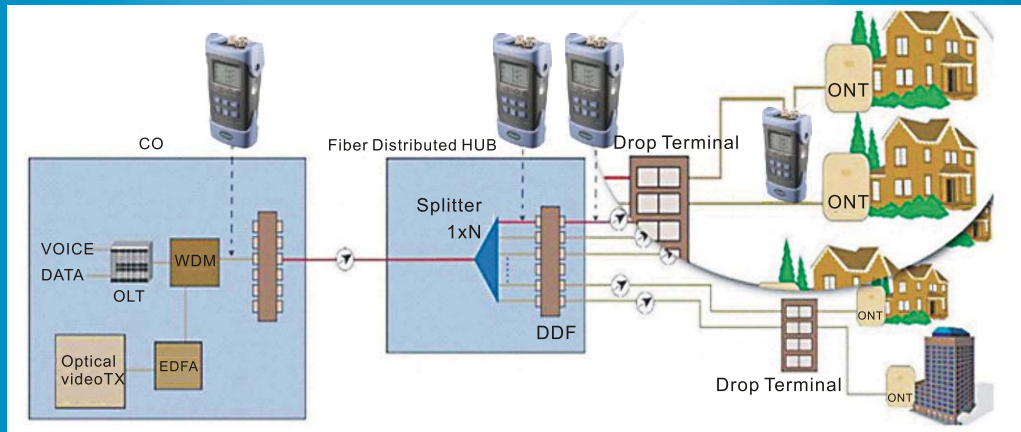
- ◎ Test power value of 1490nm, 1550nm and 1310nm in PON system at the same time.
- ◎ Test burst mode of 1310nm up wavelength.
- ◎ Dual-port and pass-through design, it guarantees communication from OLT to ONT during test.
- ◎ Ten groups of threshold value, three indicators display the optical path state.
- ◎ Transfer data to PC via USB interface.
- ◎ Store 99 records, and records can be viewed and deleted.
- ◎ Set threshold, upload data and calibrate wavelength via software.
- ◎ Auto power off, power off time from 5 to 60 minutes.

*A special tester to test
FTTx/PON passive optical network*

SAT-7E PON power meter is a special tester to test FTTx/PON passive optical network, it can synchronously measure voice, data and video signal on BPON/EPON/GPON framework. It also can set the power threshold and indicate the pass, alarm and fail of every wavelength.

Application

- ◎ FTTx/PON open: test all PON signal during opening, and match the network standard.
- ◎ FTTx/PON maintenance: test the transmission performance in daily maintenance.
- ◎ Estimate power value of any position in network from OLT to ONT.



Technical Specifications

Calibrate Wavelength	1310nm up Test	1490nm down Test	1550nm down Test
Passband (nm)	1260~1360	1470~1505	1535~1570
Detection Range (dBm)	-40~+10	-40~+10	-40~+25
Isolation of 1310nm (dB)	-	>40	>40
Isolation of 1490nm (dB)	>40	-	>30
Isolation of 1550nm (dB)	>40	>40	-
Accuracy of Measurement			
Natural Uncertainty (dB)	±0.5		
PDL Polarization Dependent Loss (dB)	< ±0.25		
Linearity (dB)	±0.1		
Through Insertion Loss (dB)	< 1.5		
General Specifications			
Display	LCD:41/2		
Unit	dB/dBm		
Resolution	0.1dB		
Power Supply	7.2V Ni-MH rechargeable battery		
Optical Fiber Type	SM		
Operating Temperature	-10~50℃		
Storage Temperature	-40~70℃		
Dimension (mm)	L× H× W: 55×95×190		

