SKYSHL

OTDR--SS322T Series

Optical Time Domain Reflectometer

Shenzhen SKYSHL Technology Co.,LTD.

www.skyshl.net

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Product Overview:

SS322T OTDR can used to test single-mode wavelengths of 1310nm, 1550nm, 1490nm, 1625nm and 1650nm, multi-mode wavelengths of 850nm and 1300nm as well as customized special wavelengths. It provides multiple optional modules, such as single wavelength, multi-wavelength and online test. With the maximum dynamic range of up to 50dB, the device can be used for remote multi-branch communication network test. It's designed with a minimum event dead zone of 0.5m which makes the near connection easy to be supervised, and the lowest sampling resolution of 2.5cm which enables it to locate the event point accurately. Additionally, the device is also designed with multiple convenient functional options, such as stable light source, optical power meter, visible red light source and fiber end face inspection tester.

SS322T OTDR is designed with an operating temperature and a storage temperature of -10℃~50℃ and -40℃~70℃ respectively to meet both EMC requirements as well as vibration and shock test requirements, a MTBF(θ_0) of 6000h or above to ensure a high reliability, and a 75W built-in Li battery to ensure an endurance for continuous measurement in the wild field.

Main Characteristics:

- A maximum dynamic range of 50dB, and 256k data sampling points;
- Online test of PON network;
- Integrated single-mode and multi-mode test;
- Automatic monitoring of optical communication signals;
- File formats of Bellcore GR196 and SR-4731 supported.

Rapid automatic test:

Due to the automatic test function of SS322T, it's not necessary for the user to know more about its operation. Connect the optical fiber and press the [Test] button. Then, the device will set the optimum test conditions automatically, and finally output accurate test results, such as the test curve and the list of events.

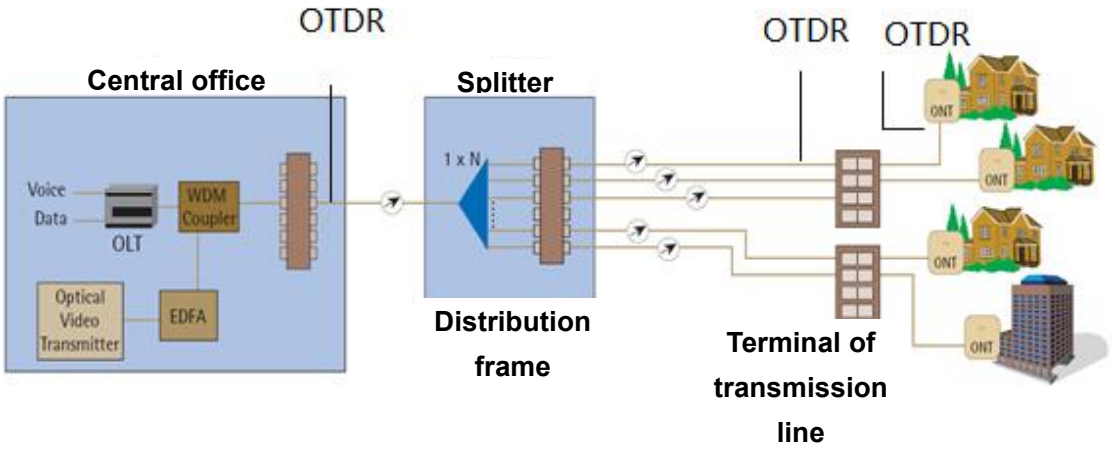
Unique PON network test:

As an ideal tester of ODN and FTTx, SS322T is provided a unique built-in PON network test function, can penetrate an optical splitter of up to 1:128, and can be used to test each branch of the PON network accurately.

Automatic monitoring and alarm of incoming optical signals:

When the OTDR is testing the optical fiber line, the optical communication signal in the optical fiber, if any, will lead to inaccurate test results and even unrecoverable damages to the detectors in the device. SS322T can monitor the optical communication signal in the optical fiber under test automatically. As long as the optical fiber under test is connected to the optical interface of SS322T, the device can automatically sense and monitor whether there is optical communication signal in it. Once an optical signal is monitored, it will prompt an alarm in time, so as to provide the quickest and the most timely protection for the device.

Typical Applications：



Technical Specifications:

Maximum dynamic range	See the "**Technical specifications for each standard module of SS322T OTDR**" for more information.
Ranging accuracy	±(0.75 + sample interval + 0.0025% × range)(excluding the refractivity placement error) (m)
Ranging resolution	0.05, 0.1, 0.2, 0.5, 1, 2, 4, 8, 16 and 32m
Test range	0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256 and 512km (single-mode); 0.4, 0.8, 1.6, 3.2, 6.4, 16 and 32km (850nm multi-mode)
Testing PW	3, 5, 10, 30, 80, 160, 320, 640, 1280, 5120, 10240 and 20480ns 3, 5, 10, 30, 80, 160, 320, 640 and 1280ns(850nm multi-mode)
Maximum number of sampling points	256k
Linearity	0.03dB/dB
Loss resolution	0.001dB
Refractivity setting	1.00000 ~ 1.99999(step: 0.00001)

range	
Range unit	km, m, thousand feet, feet
Display	800×480, 7-inch TFT color LCD (a capacitive touch screen in the standard configuration, and a resistive touch screen optional)
Optical output interface	FC/UPC (standard configuration, with LC/UPC, SC/UPC and ST/UPC optional)
Interface language	Simplified Chinese, English, German, French, Russian and Korean available (contact the office for other language support)
External interfaces	USB, Micro-USB, 10M/100M Ethernet, earphone and Micro SD
Power supply	AC/DC adapter: AC100V~240V, 50/60Hz and 1.5A DC: 17V±3V(2A) Internal Li battery: 11.1V, 6800mAh, battery operating time: 8h
Maximum power consumption	10W
Dimensions	252mm(W)×180mm (H)×55mm (D)
Weight	About 1.8kg
Environmental adaptability	Operating temperature: -10℃~+50℃ (battery charging: 5℃~40℃) Storage temperature: -40℃~+70℃ (battery: -20℃~60℃) RH: 5% ~95%, no condensation

- **VFL (optional)**

  Operating wavelength: 650nm±20nm

  Output power: 2mW (typical)

  Operating mode: CW, 1Hz and 2Hz

- **Optical power meter (optional)**

  Wavelength range: 850nm~1650nm

  Power range: -60dBm~3dBm

  Uncertainty: ±5%(-25dBm, CW)

- **Stable light source (optional)**

  Operating wavelength: the same as OTDR

  Output power: ≥-5dBm

  Operating mode: CW, 270Hz, 1kHz and 2kHz

Technical specifications for each standard module of SS322T OTDR：

Model	Operating wavelength	Dynamic range[2](dB)	EDZ(m)	ADZ(m)
SS322T-1A	SM 1625nm (Filter)	39	0.5	3
SS322T-1B	SM 1650nm (Filter)	39		
SS322T-1MA	MM 850nm	27	0.7	5
SS322T-1MB	MM 1300nm	39		
SS322T-2A	SM 1310/1550nm	40 / 38	0.5	3
SS322T-2B	SM 1310/1550nm	45 / 43		
SS322T-2C	SM 1310/1550nm	48 / 45		
SS322T-2D	SM 1550/1625nm(Filter)	39 / 39		
SS322T-2E	SM 1550 /1650nm (Filter)	39 / 39		
SS322T-2F	SM 1310 /1550nm (Filter)	33 / 31		
SS322T-2G	SM 1310/1550nm	49/49		
SS322T-2MM	SM 850nm/1300nm	29/37	0.7	5
SS322T-3A	SM 1310/1490/1550nm	40/38/38	1.5	8
SS322T-3B	SM 1310/1550/1625nm(Filter, Dual optical port)	40/38/38		
SS322T-3C	SM 1310/1550/1625nm(Filter,Single optical port)	45/43/43	0.8	4
SS322T-3D	SM 1310/1550/1650nm(Filter, Single optical port)	45/43/43		
SS322T-3E	SM 1310/1550/1650nm(Filter, Dual optical port)	40/38/38	1.5	8
SS322T-3F	SM 1310/1550/1625nm(Filter, Dual optical port)	33/31/31		
SS322T-4A	SM 1310/1490/1550/1625nm(Filter, Dual optical port)	40/38/38/38	0.8	4
SS322T-4B	SM 1310/1490/1550/1650nm(Filter, Dual optical port)	40/38/38/38		
SS322T-4MA	SM 1310/1550nm+MM 850/1300nm	40/38/29/37	1.5	8
SS322T-4MB	SM 1310/1550nm+MM 850/1300nm	33/31/27/31		

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