S2106P PON Optical Time Domain Reflectometer

Multi-Functions: OTDR / PON / OPM / LS / VFL / OFD / Event Map / OLT

Key Features

- Support PON network testing, penetrate 1:64 splitter
- Dynamic range up to 38dB, <1m ultra-short event blind zone
- One button Automatic Test and Real Time Test
- Built-in Optical Power Meter Function (OPM)
- Built-in Fiber Visual Fault Locator Function (VFL)
- Built-in Optical Loss Test Function (OLT)
- Built-in Intelligent Optical Network Map Function (iONM)
- Built-in Optical Fiber End Face Detection Function (OFD)
- IP65 protection level, outdoor enhanced
- Unique function for Self-Diagnosis on test result
- English display and input, automatic data storage
- 5.6 inch color LCD touch screen, button/ touch dual operation

Typical Applications

- FTTx test
- CATV network testing
- Access network testing
- LAN network testing
- Metro network testing
- Lab and factory testing
- Live fiber troubleshooting

Saluki S2106P PON Optical Time Domain Reflectometer is a high performance multi-function test instrument designed for the FTTx network. The product has a range resolution of up to 0.05m and a ultra-short event blind zone of 0.8m. This product is designed for PON network testing.

S2106P integrates OTDR, light source, OPM, VFL, event map (iONM), OLT and OFD function all in one. It adopts touch and button dual operation mode. The product has rich external interface, which can realize remote control through Ethernet interface or two different USB interface for external USB flash drive, printer and data communication with PC.

SALUKI TECHNOLOGY

S2106P PON Optical Time Domain Reflectometer

Multi-Functions: OTDR / PON / OPM / LS / VFL / OFD / Event Map / OLT

Technical Specifications

PON OTDR					
Model	S2106P-PD1	S2106P-PS1	S2106P-PS2	S2106P-PT1	S2106P-PT2
Wavelength (nm)	1310nm±20nm 1550nm±20nm	1625nm±20nm (Filtered)	16250nm±15nm (Filtered)	1310/1550±20nm 1625nm±15nm (Filtered)	1310/1550±20nm 1650nm±15nm (Filtered)
Filter	/	High Pass >1595nm, Isolation >50dB (1270nm-1585nm)	Bandpass 1650nm±7nm, Isolation >50dB (1650nm±10nm)	High Pass >1595nm, Isolation >50dB (1270nm-1585nm)	Bandpass 1650nm±7nm, Isolation >50dB (1650nm±10nm)
Filter Type	G.652				
Max. Dynamic Range ①	37/35dB	38dB	38dB	38/35/35dB	38/35/35dB
Event Blind Zone ②	1m	0.8m	0.8m	0.8m	0.8m
Attenuation Blind Zone	6m	6m	6m	6m	6m
PON Dead Zone	30m	30m	30m	30m	30m
Measuring Accuracy	±(0.75m + Sampling interval + 0.005% x Test distance) (Refractive error are not included)				
Test Range	0.5/1/2/4/8/16/32/64/128/256km				
Pulse Widths	3/5/10/30/50/80/160/320/500/800/1000/3000/5000/8000/10000/20000ns				
Sampling Points	16k - 256k				
Sample Resolution	0.05m - 16m				
Loss Accuracy	±0.05dB/dB				

S2106P PON Optical Time Domain Reflectometer

Multi-Functions: OTDR / PON / OPM / LS / VFL / OFD / Event Map / OLT

Loss Resolution	±0.001dB
Reflection Accuracy	±3dB
Optical Interface	FC/UPC (Interchangeable SC / ST)
File Format	SOR (standard format), PDF (analysis software)
Loss Measurement Mode	4-point method / 5-point method
Laser Safety Level	Class Π
Data Storage	Internal: 100M (≤3000 curves), External: 4GB
Refresh Rate	3Hz (typ.)
Data Interface	USB, Mini USB, 10M/100M Ethernet
IOR Range	1.0 - 2.0
Device Remote Control	By LAN
Distance Unit	m, km
Given Pass/ Fail Results	Yes
Bi-directional Analysis Function	Yes
Multitasking Function	Yes
OPM	
Wavelength Range	800nm - 1700nm
Connector	Universal FC/SC/ST
Measurement Range	-50dBm to +26dBm
Uncertainty	±5%
Resolution	≤0.01dB
Display Unit	dB, dBm
Calibration Wavelength	850/980/1300/1310/1490/1550/1625/1650nm
LS	
Laser Source	FP-LD
Wavelength	Consistent with OTDR output wavelength

SALUKI TECHNOLOGY

S2106P PON Optical Time Domain Reflectometer

Multi-Functions: OTDR / PON / OPM / LS / VFL / OFD / Event Map / OLT

Output Power	≥ -5dBm
Stability	CW, ±0.5dB/15min
Connector	FC/UPC (Interchangeable SC / ST)
VFL	
Wavelength	650nm ±20nm
Standard Output Power	≥ 10mW
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC / ST)
The Optical Loss Test index refers to the above LS and OPM index.	
Functions of host: PON OTDR/ OPM/ VFL/ LS/ Event Map/ Fiber End Detection (Additional purchase detector)/ Optical Loss Test.	

NOTE:

① *Test temperature is 25±2°C, the maximum pulse width, average time is more than 30s.*

② *Test conditions of Event Dead Zone are minimum range, minimum pulse width, reflection loss of optical fiber end surface (>45dB), typical value.*

General Information

Display	5.6 inch color LCD touch screen, English Interface
Battery	7.4V / 5200mAh Lithium battery, Max. 20 hours working time
Power Supply	AC /DC Adaptor 100V-240V, 50/60Hz, 0.6A Output: 12V-19V, 1.5A
Environment	Operating Temperature: -10 to +50ºC / Storage: -40 to +70ºC, Relative humidity: 0 - 95% non condensation
Dimension / Weight	227mmx160mmx70mm / ≤1.2kg

SALUKI TECHNOLOGY

S2106P PON Optical Time Domain Reflectometer

Multi-Functions: OTDR / PON / OPM / LS / VFL / OFD / Event Map / OLT

Standard Package

Num	Item	Qty
1	S2106P OTDR Host	1 Set
2	AC/DC Power adaptor	1 PC
3	U Disk (containing client simulation analysis software)	1 PC
4	Data line	1 PC
5	Touch pen	1 PC
6	OTDR SC adapter	1 PC
7	OPM SC adapter	1 PC
8	User manual	1 PC
9	Certificate of quality	1 PC
10	Alcohol clean cotton sheet	10 PC
11	Leather knob	1 PC
12	Special backpack for instrument	1 PC

Attention: The OTDR interface type is standard FC/UPC, FC/APC optional if needed. Due to the need for improvement, the above contents are subject to change without notice.

SALUKI
TECHNOLOGY