

NK503 10G EPON / XGPON Optical Power Meter

Product overview



NK503 can measure the power of GPON/EPON and XGPON/XG-SPON network uplink and downlink signals, including uplink 1270/1310nm signal, and downlink 1490/1550/1577nm signal. It integrates 5 functions, such as VFL, RJ45 Cable sequence, length and tracking test. It can simultaneously test and judge the optical power value of voice, data and video signals. It can measure all PON signals, and measure each wavelength separately. It is an ideal choice for PON network engineering, construction and maintenance. It has the function of "Pass/Fail" optical fiber authentication detection by setting different thresholds corresponding to different wavelengths, which ensures that service providers can improve the system performance by verifying network connectivity. So engineering contractors have high-level key authentication tools to provide customers with reliable network engineering.

Product features

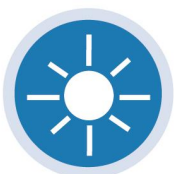
- Support GPON/EPON/XGPON/XGSPON/RF video signal simultaneous measurement
- Power division measurement of downlink signals at 1490/1550/1577nm
- Power division measurement of uplink 1270/1310nm burst signals
- Support the synchronous test of experimental voice, data and video signals on PON architecture
- The instrument can set PASS/FAIL threshold and calibration wavelength
- Data can be saved and viewed, up to 1000 pieces are supported



3.5 inch LCD
320*480



Ultra low power consumption
72h working time



VFL integration
Detect fault location



USB interface
Portable battery charging



Environmental adaptability
- 10°C~+50°C

NK503 Technical specifications

10G PON OPM					
Wavelength	1270±10nm	1310±10nm	1490±10nm	1550±10nm	1577±10nm
Measuring Range	-35~+10dBm	-35~+10dBm	-40~+12dBm	-40~+25dBm	-40~+12dBm
Isolation	>40dB				
Uncertainty	≤0.5dB				
Insertion Loss	≤1.5dB				
Detector type	InGaAs				
Display Resolution	0.01dB				
Fiber type	SM 9/125μm				
Connector	FC/UPC (APC optional)				
VFL					
Wavelength	650nm±20nm				
Output Power	≥10mW				
Mode	CW/1Hz/2Hz				
Connector	Universal joint FC/SC/ST				
RJ45 Cable Length/Sequence/Tracking					
Measuring Range	≤300m				
Others					
Display	3.5 inch Color LCD, 320*480				
External storage	≤1000				
Data Interface	Micro USB				
Power Supply	Polymer Li-Battery: 3.7V, 4000mAh; Adapter: 5VDC, 2A				
Battery Life	Standby>20h; Measuring time>12h				
Operating Temperature	-10℃~+50℃				
Storage Temperature	-40℃~+70℃				
Relative Humidity	0~95% Non Condensing				
Size	173mm×82mm×37mm				
Weight	350g				

Configuration list

NO.	Name	Quantity	Remarks	NO.	Name	Quantity	Remarks
1	Host	1	including battery	5	RJ45 Tracker	1	
2	Power adapter	1		6	Data Line	1	
3	User's Manual	1		7	Backpack	1	
4	FC / UPC to SC / UPC jumper	2		8	Qualification Certificate/After-sales Service Guarantee Card	1	