



Support many standards of Ethernet service testing to meet customers' needs completely.

- **RFC2544 measurement**  
Throughput, latency, packet delay variation, frame loss and back-to-back tests with configurable packet structure and packet dimension running in round-trip or one-way measurement mode.
- **Y.1564 measurement**  
Up to 10 service profiles can be configured to emulate audio, video and data streams in round-trip or one-way measurement mode.  
- Service Configuration Test: CIR, EIR and overshoot  
- Service Performance Test: KPIs in group transmission could be measured in CIR speed to identify the QoS of the network performance including frame delay, frame delay variation (frame jitter) and frame loss rate.
- **EtherBERT measurement**  
Test Layer 1 to Layer 4 BER streams with independent packet configuration and statistics measurement. Service interruption and BIT/FCS error injection/detection with PRBS payloads are also supported.

Sophisticated Ethernet measurement analysis functions to help customers to understand the QoS metrics and troubleshoot mechanism rapidly.

- **Packet stream generation and measurement**  
Up to 10 packet streams can be generated and measured simultaneously to verify the QoS of Ethernet services. Each packet stream can be configured independently with different MAC/IP source/destination addresses, VLAN (Q-in-Q), MPLS, TCP/UDP source/destination ports, PRBS payload, packet size and bandwidth.
- **Loopback discovery**  
Any remote Deviser loopback device or TC702 can be discovered over the local network automatically or manually to increase the test efficiency.
- **Smart Loopback and 802.3ah OAM Loopback**  
Support Layer 1 to Layer 4 user-transparent smart loopback.
- **Through mode**  
Monitor real-time packet statistics over live service networks.
- **Stream statistics in details**  
Transmit and receive statistics - line/data bit rates, Broadcast/Multicast/Unicast frames, frame Dimension distribution, error frames, packet delay, packet jitter and VLAN/MPLS/TCP/UDP frames.
- **VLAN and Q-in-Q support** Support up to 3 VLAN tags
- **IPv6 and IPv4 support**  
Support dual-stack IPv6 and IPv4 packet generation and measurement
- **Error statistics**  
Support statistics of link disconnection, loss of signal (LOS), frequency offset, symbol error, BIT error, FCS error, over size error, fragmentation error and runt error.

- **Full dual port test**  
Support full dual port test with each interface running independent test

Auxiliary functions

- **Optical Power Meter**
- **IP tools: Ping, TraceRoute, DNS, DHCP and FTP/HTTP upload/download**
- **Standard report generation**
- **Web browser surfing**
- **USB flash drive saving/loading of test profiles and measurement reports**
- **Visual Fault Locator (VFL)**

## Specifications

<b>Optical Interface</b>			
2 SFP interface, support GigE			
Available wavelength	850nm, 1310nm and 1550nm		
	<b>1000Base-SX</b>	<b>1000Base-LX</b>	<b>1000Base-ZX</b>
Wavelength (nm)	850	1310	1550
Tx Level (dBm)	-9 ~ -3	-9 ~ -3	0 ~ +5
Rx Level Sensitivity (dBm)	-20	-22	-22
Transmission Distance	550m	10km	40km
Transmission Bit Rate (Gbit/s)	1.25	1.25	1.25
Receiving Bit Rate (Gbit/s)	1.25	1.25	1.25
Tx Working Wavelength Range (nm)	830 ~ 860	1270 ~ 1360	1540 ~ 1570
<b>Measurement Accuracy</b>			
Frequency (ppm)	±4.6		
Optical Power (dB)	±2		
Jitter Compliance	EEE802.3		
Ethernet Category	EEE802.3		
Connector	LC		
Transceiver Category	SFP		
<b>Electric Interface</b>			
2 ports: 10/100/1000 Base-T full duplexing			
Automatic or manual detecting through/crossover cable			
	<b>10Base-T</b>	<b>100Base-TX</b>	<b>1000Base-T</b>
Tx Bit Rate	10Mbit/s	100Mbit/s	1Gbit/s
Tx Accuracy (ppm)	±4.6	±4.6	±4.6
Rx Bit Rate	10Mbit/s	100Mbit/s	1Gbit/s
Rx Accuracy (ppm)	±4.6	±4.6	±4.6
Duplex Mode	Half duplex and full duplex	Half duplex and full duplex	Full duplex
Jitter Compliance	IEEE802.3	IEEE802.3	IEEE802.3
Connector	RJ-45	RJ-45	RJ-45
Max. Distance (m)	100	100	100
<b>General Specifications</b>			
Dimension (H x W x D)	256 x 183 x 73mm		
Weight (with battery)	1.8kg		
Operating Temperature	0 ~ 50°C		
Storage Temperature	-20 ~ 70°C		
Relative Humidity	0% ~ 95% (non-condensation)		
Working Time	Over 4 hours		
Charging Time	5 hours from full discharge		
Language	English, Chinese, Spanish, Portuguese		

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