

## TC601A

# Handheld Gigabit Ethernet Tester

### Key Benefits

- RFC2544 tests: throughput, latency, frame loss, and back-to-back
- ITU-T.Y.1564 tests
- Ethernet BER testing at Layer1/2/3/4, PRBS and user-defined pattern
- VLAN(Q-in-Q) and MPLS support
- Packet generation and measurement, up to 10 data streams with user-defined parameters
- Detail traffic analysis and statistics
- Smart Loopback at Layer 1/2/3/4
- Cable diagnostics
- Optical power measurement
- IP Tools: Ping, TraceRoute, IPv4 and IPv6 support
- RFC3393 Test(Optional)
- Online packets capture(Optional)
- 802.3ah OAM Support(Optional)
- Remote control from PC software



TC601A Handheld Gigabit Ethernet tester is designed for Ethernet network deployment and integration testing. As meeting the Gigabit Ethernet standard, it provides comprehensive Ethernet testing capabilities with reliable, simple, and flexible features to meet the daily tasks of field engineers. TC601A is a performance-to-price tester for service providers to validate service level agreements (SLA) with key parameter index (KPIs).

### Specifications

Optical Interface			
Single SFP interface, supports GigE			
Available wavelength	850nm, 1310nm and 1550nm		
	1000Base-SX	1000Base-LX	1000Base-ZX
Wavelength (nm)	850	1310	1550
Tx Level (dBm)	-9 ~ -3	-9 ~ -3	0 ~ +5
Rx Level sensitivity (dBm)	-20	-22	-22
Transmission distance	550 m	10 Km	40 Km
Transmission bit rate (Gbit/s)	1.25		
Receive Bit Rate (Gbit/s)	1.25		
Tx working wavelength range(nm)	830 ~ 860	1270 ~ 1360	1540 ~ 1570
Measurement Accuracy			
Frequency (ppm)	±4.6		
Optical power (dB)	±2		
Jitter Compliance	IEEE802.3		
Ethernet Category	IEEE802.3		
Connector	LC		
Transceiver Type	SFP		

Electrical Interface			
Single RJ45 Interface : 10/100/1000Base-T full duplex			
Automatic or manual inspection straight / crossover cable			
	10Base-T	100Base-TX	1000Base-T
Tx Bit Rate	10Mbit/s	10Mbit/s	1Gbit/s
Tx Accuracy (ppm)	±4.6	±4.6	±4.6
Rx Bit Rate	10Mbit/s	10Mbit/s	10Mbit/s
Rx Accuracy (ppm)	±4.6	±4.6	±4.6
Duplex mode	Duplex	Duplex	Duplex
Jitter Compliance	IEEE802.3	IEEE802.3	IEEE802.3
Connector	RJ-45	RJ-45	RJ-45
The maximum distance(m)	100	100	100
General Specifications			
Dimension	222*108*57(mm)		
Display	3.5" 320*240 Touch LCD		
Weight (with battery)	<1 kg		
Working temperature	0°C ~ 50°C		
Storage Temperature	-20°C ~ 70°C		
Relative Humidity	0% to 95% (Non-condensing)		
Interface	USB; Ethernet		
Battery Life	> 4 hours		
Battery Charging time	< 5 hours		
Language	English, Chinese, Spanish, Portuguese		