

TC601+ Ethernet Service Tester

Key Benefits

- Complete solution for activating, verifying & fault-diagnosing Ethernet service from 10Mbit/s to 1Gbit/s quickly and easily
- 5" (800x480) color LCD touchscreen
- 100/1000Base-X optical port, 10/100/1000Base-T electrical port x1
- Integrates multiple software tools for field measurement, ensuring high cost-performance
- Professional PDF and CSV data report generation
- Rechargeable lithium battery powers continuous use for over 6 hours (8 hours idle)

Main Functions

- Supports one 10/100/1000Base-T electrical interface and one 100/1000Base-X optical port
- RFC 2544: Throughput, Latency, Packet Delay Variation, Frame Loss, and Back-to-Back (symmetrical and asymmetric results)
- Ethernet BERT: layer1 to layer4
- Y.1564: Service configuration and performance measurement
- Stream traffic generation and analysis up to 10 streams
- Smart Loopback for layer1 to layer4
- VLAN (Q-in-Q) support
- MPLS support
- Option for IEEE 802.3ah OAM support
- Packet Delay Variation measurement
- Cable Diagnostics and Optical Power testing
- IPv6 support
- Ping, Trace Route
- CSV and PDF result files



Product Overview

New from Deviser Instruments, the TC601+ is a handheld Ethernet service tester that supports testing for speeds up to 1Gbps. It's the next generation of telecommunication systems analysis, serving the growing need for high-speed metropolitan access at unmatched cost performance.

Major Applications

The TC601+ Ethernet Service Tester excels at all Ethernet measurement applications, including performance evaluation; metro Ethernet installation, activation, & maintenance; point-to-point Ethernet joining-up service planning; real-time online fault diagnosis; and more.

Specifications

| Optical Port | | | |
|--|---|-------------|-------------|
| SFP port x 1, supports 1GigE | | | |
| Available Wavelength | 850nm, 1310nm & 1550nm (see below) | | |
| | 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 | 550m | 10Km | 80Km |
| Transmission Bit Rate (Gbit/s) | 1.25 | | |
| Receiving Bit Rate (Gbit/s) | 1.25 | | |
| Tx Working Wavelength Range (nm) | 830 ~ 860 | 1270 ~ 1360 | 1540 ~ 1570 |
| Test Accuracy | | | |
| Frequency (ppm) | ±4.6 | | |
| Optical Power (dB) | ±2 | | |
| Jitter Compliance | IEEE802.3 | | |
| Ethernet Type | IEEE802.3 | | |
| Connector | LC | | |
| Transceiver Type | SFP | | |
| Electrical Port | | | |
| Single port: 10/100/1000 Base-T Full duplex | | | |
| Auto/manually detecting straight-through/cross cable | | | |
| | 10Base-T | 100Base-TX | 1000Base-T |
| 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 Test Accuracy (ppm) | ±4.6 | ±4.6 | ±4.6 |
| Duplex Mode | Full duplex | 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 |
| General | | | |
| Dimensions (LxWxH) | 179mm x 145mm x 56mm (7.0" x 5.7" x 2.2") | | |
| Display | 5" 800x480 color LCD touchscreen | | |
| Weight (with battery) | 0.8kg (1.8lbs) | | |
| Working Temperature | -10°C ~ 50°C | | |
| Storage Temperature | -20°C ~70°C | | |
| Relative Humidity | 0% to 95% (non-condensation) | | |
| External Port | USB, Ethernet port | | |
| Working Time | ~6 hrs | | |
| Charging Time | 5 hrs for full charge | | |
| Language | English, Chinese | | |

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