



DSL-3020V VDSL Tester

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DSL-3020V is a handheld VDSL tester, which provides full testing and analysis of VDSL2/ADSL/ADSL2/ADSL2+ lines accurately and fast, covering physical layer, network layer, and application layer. Giving a visual determination of the quality of xDSL lines, it is a necessary and ideal tool for installation, maintenance, troubleshooting of the xDSL.

□ Functions

- xDSL physical layer testing
 - ADSL2+ module: full support all ADSL standards, including ANSI T1.413 Issue 2, ITU-T G.992.1 G.dmt, G.992.2 G.lite, G.992.3 ADSL2, RE-ADSL2 and G.992.5 ADSL2+
 - VDSL2 module: support ITU-T G.993.2 VDSL2, and all ADSL standards above mentioned
 - Test upstream, downstream, maximum speed and channel utilization
 - Test upstream and downstream noise margin, and export power and power attenuation
 - Error statistics of near end and far end FEC, CRC, HEC, NCD, and OCD
 - Automatically detect and display near end and far end LOS, LOF, LOP, LOC and LOM with the comparison between history and present data
 - Error seconds statistics
- Display every sub-channel of Bits per Tone by the mean of graphic and number
- Display every sub-channel of SNR per Tone by the mean of graphic and number



■ xDSL network layer testing

- Support several upper layer protocols, including RFC2684, RFC1483, RFC2516 PPPoE, RFC2364 PPPoA, DHCP and PAP/CHAP etc.
- PPPoE/PPPoA dialup obtain IP address and Ping testing
- Fixed IP Mode Ping testing
- Ping testing that includes Ping loss testing with times and package size, Ping loopback latency testing with MAX, MIN and average
- Traceroute
- ADSL2+/VDSL2 modem replacement

■ xDSL application layer testing

- Web browsing and FTP/HTTP download speed measurement

■ Ethernet testing

- DHCP client testing
- PPPoE dial-up is used to test the problem from user side
- Network layer testing, including Ping, ipconfig, route and traceroute
- Application layer testing, including net scan, Web browsing and FTP/HTTP download speed measurement

■ Cable testing

- Digital Multi Meter, DMM is used to test loop resistance, insulation resistance, capacitance, AC/DC voltage and line length estimation
- Tone generation

■ Others

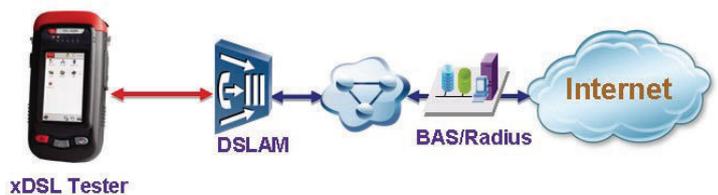
- Auto power-off
- Sound and LED alarm indication
- Data management

□ Features

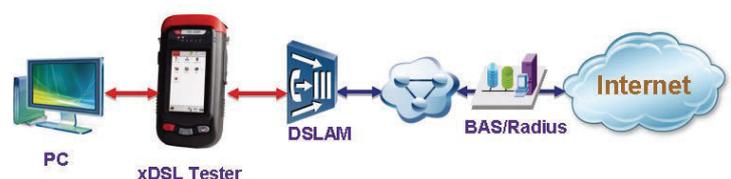
- Large LCD touch screen
- Compact design and excellent stability
- Windows CE OS, graphical interface, easy to operate
- Software online upgrade
- Web browsing without any limitation
- Tone generation, signal at one end, and then identify the tested line with tone generator at the other end
- Large Li-ion battery capacity with long time operation

□ Applications

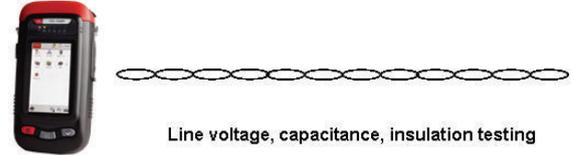
ATUR/VTUR+PC emulation



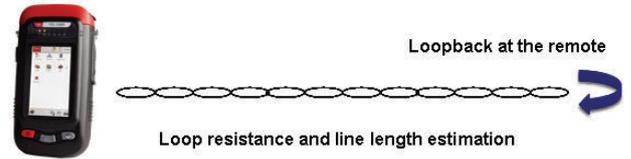
xDSL modem replacement



PC replacement

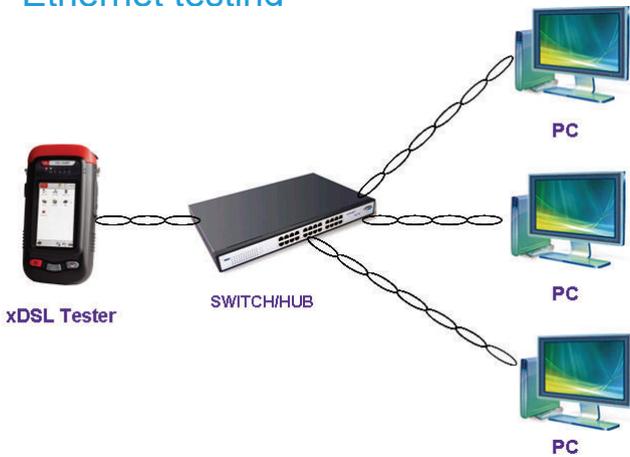


xDSL Tester

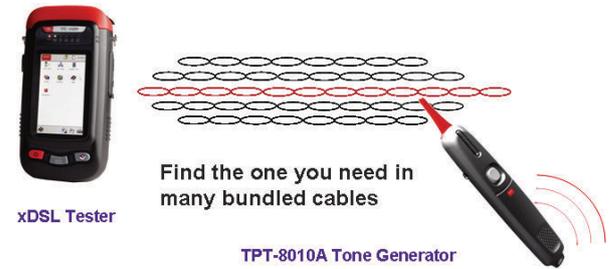


xDSL Tester

Ethernet testing



Tone generation



xDSL Tester

TPT-8010A Tone Generator



□ Specifications

| General | |
|-----------------------|-----------------------------|
| Size | 200×120×60mm |
| Weight | 1000g |
| Display | TFT true color, 480x272 |
| Operation mode | Touch screen, keyboard |
| Interface | RJ11, RJ45, USB, DC power |
| Battery | Rechargeable Li-ion battery |
| Charging time | 3 hours |
| Operation time | 5 hours |
| Operation temperature | 0°C to +50°C |
| Storage temperature | -20°C to +70°C |
| Operation humidity | 10% to 90% |
| Storage humidity | 5% to 95% |
| Data storage | >2000 records |

| Teting - xDSL | |
|---------------------------------|---------------|
| Attenuation | 0~63.5dB |
| Output power | -32.0~31.5dBm |
| Noise margin | -64.0~63.5dB |
| ADSL2+ Downstream rate | 0~24Mbps |
| ADSL2+ Upstream rate | 0~1.2Mbps |
| VDSL2 Downstream rate | 0~100Mbps |
| VDSL2 Upstream rate | 0~100Mbps |
| DMT sub-channel modulation bits | 0~15 |
| Bit error quantity | 0~65535 |

| Testing - DMM | |
|-----------------------|----------------|
| Loop resistance | 5Ω~5KΩ±5% |
| Capacitance | 0~500nF±10% |
| DC voltage | -110V~110V±5% |
| AC voltage | 0~110V±5% |
| Insulation resistance | 0.1MΩ~50MΩ±10% |

