EZtouch VDSL2

Advanced Test Set for VDSL2 and ADSL1/2/2+

The ideal tool for ILECs, CLECs, and sub-contractors who are responsible for installing, verifying, and troubleshooting VDSL2 and ADSL1/2/2+ circuits and Copper loops.

Main Features

- Large LCD with touch screen, Windows CE graphical interface
- Handheld durable design
- Quickly test upstream/downstream max bit rate, channel utilization, noise margin and power
- Fast pass/fail Copper tests with DMM (ACV, DCV, Loop and Insulation Resistance, Capacitance, Line length)
- Bits/Tone and SNR/Tone graph and table results
- Detect and indicate xDSL alarms and errors
- Complies with multi-standards—ITU-T G.992.1 (G.DMT), ITU-T G.992.2 (G.Lite),
    ANSI TI.413 Issue 2, ITU-T G.992.3(ADSL2), RE-ADSL2, ITU-T G.992.4 (Splitterless ADSL2), ITU-T G.992.5(ADSL2+), ITU-T G.993.2 (VDSL2)
- Supports multi-protocols: PPPoE (RFC 2516) • PPPoA/LLC (RFC 2364), PPPoA/VC-MUX (RFC 2364),
    RFC 1483, supporting bridged and routed modes, Static IP and DHCP,
    RFC 2684, supporting bridged and routed modes, Static IP and DHCP, bridged Ethernet
    supporting bridged and routed modes, Static IP and DHCP
- IP PING test for xDSL and LAN indicates PING latency with min/max/avg results
- Supports MODEM emulation and simulating Internet login
- ATM F5, OAM Loopback test
- Web browser, web download speed test, FTP and TraceRoute
- Net Scan
- Audio tracking
- Field replaceable, rechargeable lithium battery module
- Beep and LEDs alarm indications (Low power, xDSL, and Ethernet)
- Large storage capacity—can store up to 2000 test records (50Mbytes of storage)
- Auto shut-off

Frederick Engineering, Inc.
832 Oregon Avenue, Suite M
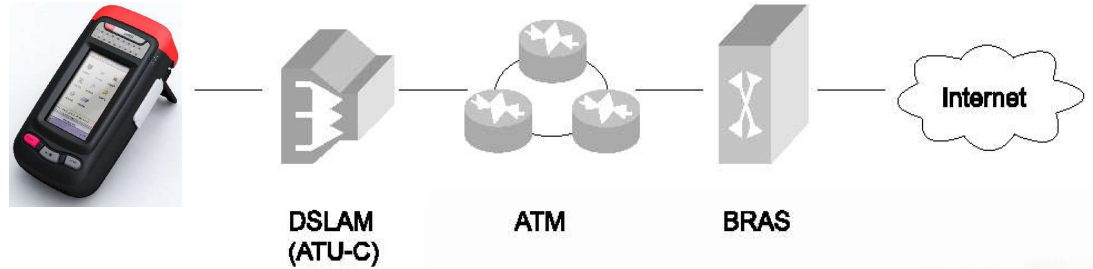Linthicum, MD 21090

FE TEST

Phone: 410-789-7890
Fax: 410-789-7670
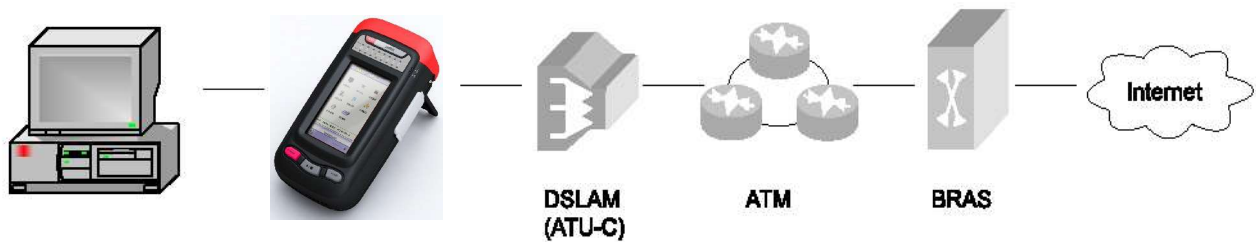e-Mail: fe@fetest.com

www.fetest.com

Applications

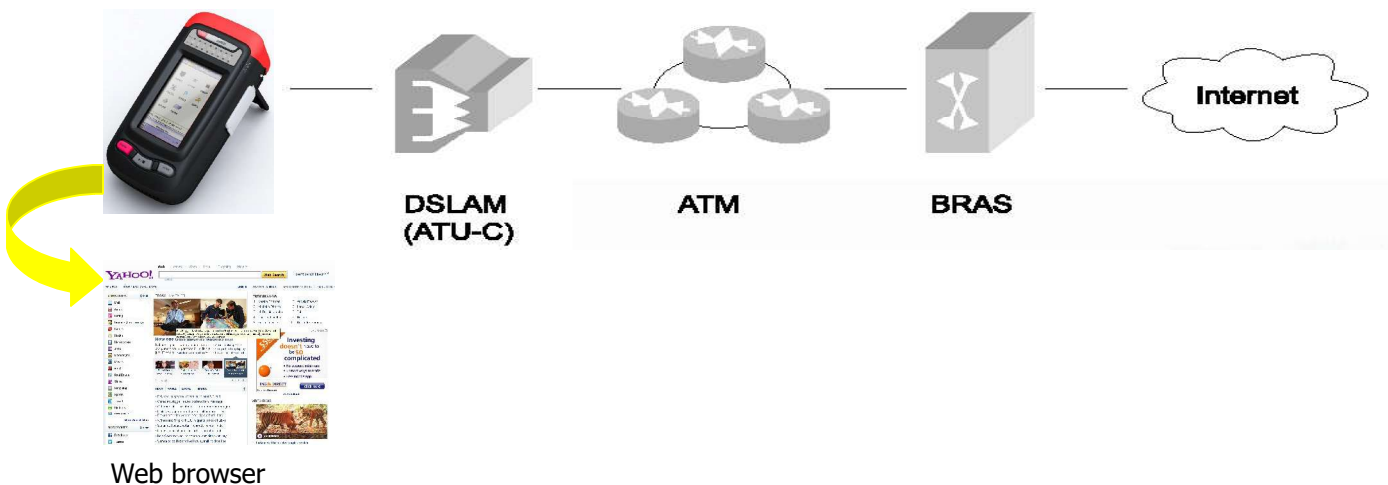## Physical Parameters Test

Emulate ATUR + PC to run an xDSL physical layer test, network layer test and application test.
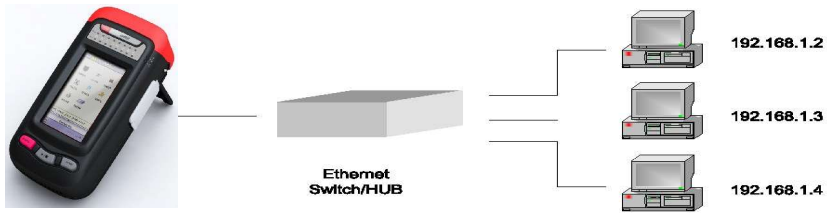
Modem Emulation (Replace modem)

ISP Login and PING Test (Replace PC)

Web browser

Applications Continued

Ethernet Test

Send PING packets to validate connectivity of LAN using the integrated Ethernet port to connect to an Ethernet switch.

Cable Test

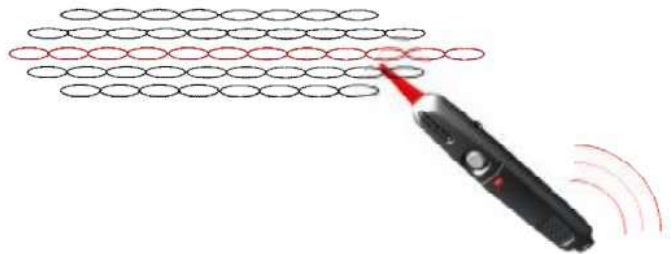Measure line voltage, capacitance, insulation leakage and more.

Measure loop resistance and estimate line length.

Audio Line-tracking

Find a particular wire in a bundle of cables.

Specifications

Item	Description
Connectors	RJ-11 (xDSL) , RJ-45 (Ethernet), USB, Power
Line Code	DMT
Downstream Rates Supported	ADSL2+ : 0 — 24Mbps VDSL2: 0 —100Mbps
Upstream Rates Supported	ADSL2+ : 0—1.2Mbps VDSL2: 0 —100Mbps
DMT Sub-Channel Modulation Bit Quality	0 —15
Attenuation	0 — 63.5 dB
Export Power	-32 — 31.5dBm
Noise Margin	-64 — 63.5dB
Error CRC/HEC/FEC	0 — 65,535
Alarm and Status Indications	ALARM, LAN LINK, WAN LINK, CHARGE, etc.
DMM	<u>DMM Parameter Ranges</u> DC Voltage: Range: -110V to 110V Accuracy: +/- 5% AC Voltage: Range: 0V to 110V Accuracy: +/- 5% Loop Resistance: Range: 5 Ohms to 5 KOhms Accuracy: +/- 5% Insulation Resistance: Range: .1 Ohms to 50 M Ohms Accuracy: +/- 10% Capacitance: Range: 0nF to 500nF Accuracy: +/- 10%
Standards Supported	<u>Comply with: ANSI T1.413 Issue 2</u> ITU-T G.992.1(G.dmt), ITU-T G.992.2 (G.lite), ITU-T G.992.3(ADSL2), RE-ADSL2 ITU-T G.992.4(Splitterless ADSL2), ITU-T G.992.5(ADSL2+) ITU-T G.993.2 (VDSL2)
Encapsulation Supported	PPPoE (RFC 2516)• PPPoA/LLC (RFC 2364)• PPPoA/VC-MUX (RFC 2364) RFC 1483, supporting Bridged and Routed modes, Static IP and DHCP RFC 2684, supporting Bridged and Routed modes, Static IP and DHCP Bridged Ethernet supporting Bridged and Routed modes, Static IP and DHCP
Storage	50MB capacity stores up to 2000 records
LCD	480X272 TFT by touch screen display and key pad
Rechargeable Batteries	Lithium batteries, continuous operation for 5 hours, charges in 3 hours
AC Power Adapter	Input: AC 100V-240V, 50/60Hz Output: DC12V/1.0A
Record View II	Operating System: WIN98/ME/2000/XP
Operating/Storgae Temperature	-10C — 50C or 14F — 122F / -20C — 70C or -4F — 158F
Operating/Storgae Humidity	10% — 90% / 5% — 95%
Dimensions	L×W×H: 7.87 x 4.72 x 2.36 (in) or 200 x 120 x 60 (mm)
Weight	1KG grams or 2.20 lbs.