FOX250

ADSL2+ Tester – Ideal tool for field technician

FOX250 ADSL2+ Tester, a consolidation of DSL modem, IP PING and Metallic Testing is specially designed to meet the urgent requirement of xDSL testing including ADSL, ADSL2, ADSL2+ and READSL. In particular, it is used by the field technician for ADSL installation and maintenance.

At present, most of the xDSL testers in the market are so complicated to use that the technicians are required to have strong technical background, and still need to be trained. Additionally the prices are generally high. The ISP could only afford a few sets that only a professional network analysis engineer could operate. In fact, they are not suitable equipment for use by the installation and maintenance technician.

With the rapid development of broadband services, the field technicians in charge of installation and maintenance have to face a much more complicated workload than ever before. As a result, simple, portable and money-saved test equipment is eagerly wanted.

FOX250 could not only test physical parameters but also help to judge whether the line is fit for xDSL service and evaluate the level of service quality. In fact the field technicians do not need to know line parameters and specifications. To them, the most important business is to determine the level of service quality and locate the fault points. With the help of FOX250 every forefront workman is up to the task.
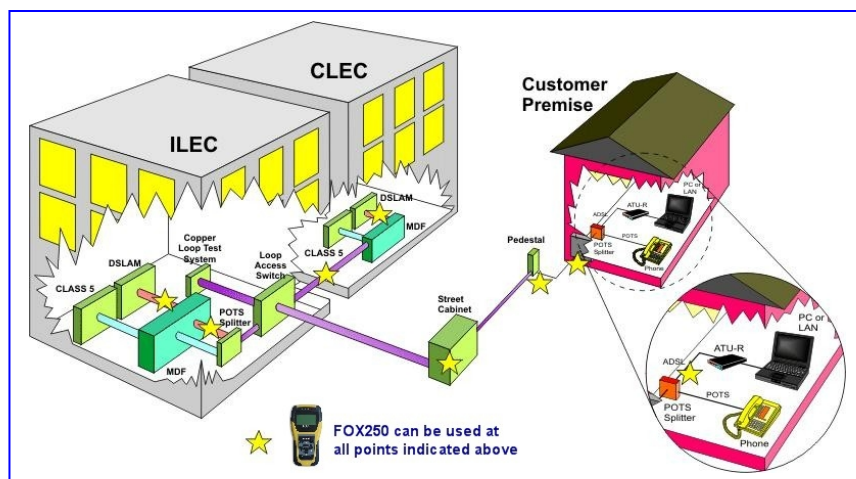
Furthermore, FOX250 could make PPPoE or PPPoA dialling through the built-in DSL modem and verify the connection between a user and the ISP via the emulation of user PC + modem. It also enables technicians to validate the customer's internet connection and verify LAN connectivity using the IP PING test with unprecedented ease and speed.

FOX250 adopts LCD display and menu operation. This allows for easy operation. It can display the test results including bits per tone in graphics directly and intuitively.

Therefore, FOX250 is the ideal tool for the field technician installing and maintaining ADSL/ADSL2/ADSL2+ service.

Key Features

- Consolidation of DSL modem, PING and Metallic Testing

- Small size, enhanced functions and the most affordable ADSL2plus + DMM tester on the market

- Simple and easy to use

- Fast and easy copper loop qualification for ADSL2+ services with a pass/fail indication and programmable thresholds.

- Full-featured ADSL/ADSL2/ADSL2+ tests quickly verify provisioned rates and service quality

- Support physical layer test, modem emulation, PPPoE/PPPoA dialing and IP Ping test to IP address or domain name

- Identify ATU-C brand

- Determine telephone line faults (line break or mix)

- Power Management

- Line voltage indication

- Data memory capacity: 50 results

- Results can be uploaded to PC and printed

- Firmware can be upgraded by user

- Battery gauge indicator

- Low battery warning – when battery is low enough, it will give a warning message 1 minute before shutting down.

- LCD display with backlit

- DC operation with vehicle power adapter

Bit per tone graph

FOX250 will display bits per tone in graphics after successfully linking up with DSLAM.

PPP Dialling test function

The user can fulfill PPPoE (or PPPoA) dialling through a PPPoE (or PPPoA) test account. After successful dialling, it will obtain local/destination IP, DNS server IP and subordinate IP address, and PPP LED will be shining after a successful PPP session. 7 VPI/VCI groups are preset for user to select conveniently and they are also user-definable. And the user may also select and set PAP/CHAP authorization method.

Channel Bit Chart 1

Modem emulation

FOX250 can replace the user Modem completely. The user could take FOX250 as an ADSL modem to dial and Login to the Internet and determine if the customer modem works properly.
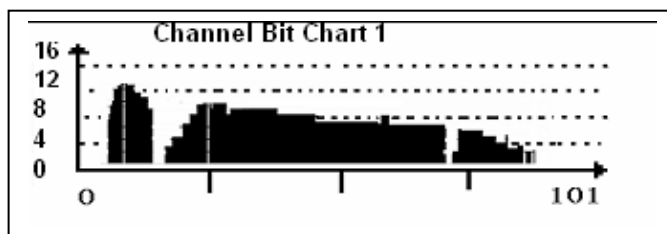
Data storage and management software

FOX250 can save up to 50 results including line parameters, channel bit chart and error test. The results can be uploaded to PC via the unit's LAN port for record or further analysis and printed. Using the software all parameters can be preset before passing the test set to the technician for a test campaign and collecting test results after. Technicians do not have to worry about setting the unit at all, thus increase test efficiency significantly.

Digital Multimeter (DMM) test

FOX250 can measure AC/DC Voltage, Capacitance, Loop Resistance and Insulation Resistance for basic line troubleshooting. It also estimates loop distance.

Indicate Line Voltage

For safety purposes, when line voltage greater than 80VDC or 50VAC is detected, FOX250 will display warning message and the voltage indicator LED will be on to inform the technician of a warnng loop condition.

Technical specifications

ADSL/ADSL2/ADSL2+	
Emulation	ADSL/ADSL2+ ATU-R modem
	Through-mode
Standards	ITU G.992.1 (G.dmt), ITU G.992.2 (G.lite),
	ITU G.992.3 (ADSL2), ITU G.994.1(G.hs),
	ANSI T1.413 issue #2,
	ITU G.992.5 (ADSL2+) Annex L.
	Compatible with ADSL, ADSL2 and READSL
Rate Supported	Downstream: up to 24Mbps;
	Upstream: up to 1.2Mbps;
Physical Layer	Up/Downstream max speed
Feature Supported	DSL up/down attenuation (0 ～ 63.5dB)
	DSL up/down noise margin (0 ～ 32dB)
	DSL up/down output power
	Error test for CRC, FEC, HEC, NCD, LOS
	Display DSL connection mode
	Determine service quality: Excellent/good/ok/poor
	Display the channel bit chart
Errors	LOS (Loss of Sync) UP/DOWN
Measurement	CRC (cyclic redundancy check) UP/DOWN
	HEC (header error correction) UP/DOWN
	FEC (Forward Error Correction) UP/DOWN
Note:	

Protocols supported		
	PPPoE (RFC2516) with PAP, CHAP session	
	PPPoA (RFC2364)	
	Ethernet over ATM/Bridge RFC1483	
	IPoA	
VPI/VCI	7 pre-set groups and user definable	
PING Test	WAN (IP address and domain name)	
	LAN (10/100Mbps)	

Line Measurement		
Test	Test Range	Accuracy
DC Voltage (V)	0 ~ 100 DC	±2%
	100 ~ 200 DC	± 5%
	200 ~ 400 DC	±5%
AC Voltage (V)	0 ~ 100 AC	±2%
	100 ~ 400 AC	±5%
Loop Resistance (Ω)	0 ~ 100	±3%
	100 ~ 500	±3%
	500 ~ 2000	±2%
	2000 ~ 20K	±2%
Capacitance (nF)	0 ~ 10	±2 nF
	10 ~ 1000	±2%
	0 ~ 1.0	±0.1 MΩ
	1.0 ~ 50	±10%
Leakage	Up to 50 MΩ	1.0 ~30 ±10%±0.5MΩ

Specifications subject to change without notice

General Specifications

Display	128 x 64 pixels LCD with Backlit
Test Results Storage	50
Software	Remote Management software allows user to preset parameter and upload test results via Ethernet port.
Interfaces	RJ11 DSL Test Port 10/100Mbps RJ45 Ethernet Port for through mode testing RJ45 Ethernet Comm Port
Power Supply	Rechargeable Li-Ion Operating time (approx.) – 6 hours (typical measurement) Universal AC adapter (110 ~ 250VAC, 50/60Hz) Vehicle power adapter (Optional) Power Management – auto power off
LED	Ethernet Status PPPoE Status Link Status Power Status
Audio	Audible buzzer to indicate key input.
Maximum Test Distance	6.5km
Temperature (Operation)	0 ~ 40ºC
Temperature (Storage)	-20C ~ 70ºC
Relative Humidity	up to 85% non-condensing
Dimension (L×W×H) (mm)	180 × 93 × 48
Weight (with Battery)	<500g
Certificate	CE

Standard Accessories

Ethernet cable	1 piece
Test Cable	2 pieces
Li-Ion rechargeable battery	1 pack
AC/DC Power Adapter	1 piece
User manual	1 hard copy
Management software	1 CD
Soft carrying case	1 case
Vehicle power adapter	Optional

Related Products

FOX-100	Wire tracker
FOX-150 series	Telephone line & service test sets
FOX-450B	Advanced DMM and ADSL2+ tester
FOX-450MS	ADSL2+ and SD IPTV package
FOX-450MH	ADSL2+ and HD IPTV package
FOX-450V	Advanced DMM and VDSL2 tester
FOX-600CQM	Cable Qualification Test Set

Ordering Information

Model	FOX250