SAT-701F
ADSL2+ Tester

Major Features

◎ English menu, large color touch screen, and simple operation;

◎ Portable design; built-in lithium battery, and its working time are over 8 hours

◎ Multi-task support (test and browsing previous records at one time)

◎ Save, delete test setup and test results and power-off memories;

◎ Save 1000 test results

◎ Alarm detection and indication

◎ Via U disk or LAN to exchange test data , to saving, analyzing and printing for test results

◎ On-line updating of software

SAT-701F ADSL2+ Tester is a hand-held communication instrument .It is particularly applicable for activating operation, acceptance and maintenance of ADSL equipment, and can be widely used by ADSL business operators like Telecom, Rail Company, etc, and is the best choice of ADSL engineers and technicians.

For ADSL physical layer

◎ Fast and interleave channel test

◎ Line parameters testing: up and down channel rate, line attenuation, noise margin, output power, and utilization rate of channel

◎ Performance analysis of line error and alarm

　◇Detection of interleave fast channel FEC CRC,HEC, NCD at proximal end and remote end

　◇Detection of interleave fast channel OCD at proximal end

　◇Detection of fast channel OCD error frame count at proximal end

◎ DMT sub-channel carrier pattern

　　Display modulated bit numbers on each DMT sub-channel by diagram and digital mode

◎ Display user s connection state and testing progress at real time, and present information of local equipment manufacturer and version

For ADSL network layer

◎ ISP PING test

　　Verify the connectivity of user to ISP

◎ WAN PING test

　　Directly PING the website IP or web address to local WAN to verify the connectivity of WAN link

◎ Completely instead of ADSL MODEM to simulate ISP logon, and verify the operation performance of user's terminal equipment

◎ Testing VPI/VCI

◎ Webpage browsing

　　Surf on-line, to verify the speed rate is normal or not

◎ Testing of network layer

　　It includes testing functions: Ping, Ipconfig, Route and Tracert

◎ Testing for webpage speed

◎ Testing for FTP client-side

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For ADSL LAN

◎ LAN PING test

　　Verify the PC in connection fault in LAN

◎ Webpage browsing

　　Surf on-line

◎ Testing network layer

　　It includes testing functions: Ping, Ipconfig, Route and Tracert

◎ Testing webpage speed

◎ Testing FTP client-side

◎ Testing PPPoE dial-up

◎ Testing Network Neighborhood

　　Test LAN, and search the PC in LAN, check the PC name, IP
　　and MAC address

◎ Simulated PC logon

　　Simulate user terminal PC logging on ISP to verify if ADSL user
　　can surf on the Internet

For ADSL line

◎ Digital multi-meter (DMM) test

　　Test AC/DC voltage, loop resistance, insulation resistance,
　　capacitance, etc

◎ Estimate the distance of telephone wire

Technical index

Connectors: RJ11 --- WAN interface

　　　　　　RJ45 --- LAN interface

　　　　　　USB --- interface

Applicable standards: ITU G.992.1(G.DMT)

　　　　　　　　　　ITU G.992.2(G.lite)

　　　　　　　　　　ITU G.994.1 G.hs

　　　　　　　　　　ITU G.992.3(ADSL2)

　　　　　　　　　　RE-ADSL

　　　　　　　　　　ITU G.992.4(Splitterless ADSL2)

　　　　　　　　　　ITU G.992.5 (ADSL2+)

　　　　　　　　　　ITU G.992 AnnexL

　　　　　　　　　　ANSI T1.413 Issue 2

Upper layer protocol support: PPP over Ethernet (PPPoE)

　　　　　　　　　　　　　　Ethernet over ATM (RFC-1483B)

　　　　　　　　　　　　　　RFC-1483R

Line performance index: down speed: 24Mb/s, and up speed: 1.2Mb/s,

　　　　　　　　　　maximum transmission distance 6.5km

Digital multi-meter:

　　DC voltage: -400V~+400V, accuracy: $\pm$5%$\pm$ 2V

　　AC voltage: 0~290V, accuracy: $\pm$5% $\pm$2V

　　Line loop resistance: 0~20K Ω, accuracy: $\pm$3%

　　Insulation resistance: 0~1.0MΩ, accuracy: $\pm$0.1MΩ; 1.0~50MΩ,

　　accuracy: $\pm$10% $\pm$0.5MΩ;

　　Capacitance: 0~10nF,accuracy: $\pm$2nF; 10~1000nF, accuracy: $\pm$5%

Other Parameters

◎ Power supply

　1) Special power adapter

　　　Input: AC220V 50Hz   Output: DC 9V 1.2A

　2) Built-in rechargeable lithium battery

　　　4000mAh 7.2V

　　　Working time: 8 hours

　　　Charging time: 6 hours at power-off state, and 10 hours at

　　　　　　　　　power-on state

◎ Dimension and weight:

　　　L$\times$W$\times$H: 220$\times$162$\times$48mm

　　　Weight: 0.9kg

◎ Ambient parameters:

　　　Operating temperature: -10 -+50℃

　　　Storage temperature: -30 -+70℃

　　　Humidity: 5% 90% non-condensing