

SUN

MTT

The Sun Multi-Technology Tester (MTT) is a robust, handheld test instrument designed for field technicians installing, maintaining, and troubleshooting a wide range of telecommunications services, including DSL, Ethernet, and POTS.

SPECIFICATIONS

General

Interfaces	RJ-11, RJ-45, USB, Bluetooth (optional), WiFi (optional)
Display	Color LCD

Physical

Power Supply	Internal rechargeable Li-Ion battery, AC adapter
Operating Temperature	0 to 45 °C °C
Dimensions (W×H×D)	120 70 240 mm mm
Weight	1.1 kg kg
Display Size	5.7 inches

General Specifications

Product Model	Sun MTT
Product Description	Handheld Multi-Technology Tester for telecom field services
Display Type	Color LCD
User Interface	Keypad and navigation buttons

DSL Testing Capabilities

Supported DSL Technologies	ADSL (G.DMT, T1.413), ADSL2, ADSL2+, VDSL2
DSL Profile Support	VDSL2 Profiles 8a, 17a, 30a
Vectoring Support	Yes (G.vector compliant, firmware dependent)
DSL Sync Rate Measurement (Upstream)	Yes
DSL Sync Rate Measurement (Downstream)	Yes
DSL Bit Error Rate (BER) Testing	Yes
Signal-to-Noise Ratio (SNR) Measurement	Per tone and aggregate SNR margin
Loop Attenuation Measurement	Yes
Impulse Noise Protection (INP)	Measurement and display
Retransmission (G.INP) Support	Detection and display
Error Seconds (ES) Measurement	Yes
Severely Errored Seconds (SES) Measurement	Yes
Loss of Signal (LOS) Events	Detection and counting
DSL Line Status Indicators	Comprehensive real-time status
Modem Emulation Modes	PPPoE Client, PPPoA Client
DSL ATM/PTM Layer Testing	ATM/PTM statistics (cells/packets, CRC errors)
IPTV Testing	Basic stream statistics (optional module/firmware)
VoIP Testing	SIP registration, RTP stream monitoring (optional module/firmware)

Copper Loop / Physical Layer Testing

Voltage Measurement	AC/DC voltage up to 250V
Resistance Measurement	Loop resistance, R-G, R-T, G-T
Insulation Resistance Measurement	Up to 100 M Ω
Capacitance Measurement	Up to 1000 nF
Distance to Fault (DTF)	TDR-based fault location
Time Domain Reflectometry (TDR)	Yes
Tone Generation	577 Hz or 1 kHz
Loop Current Measurement	Yes
Noise Measurement	POTS band, DSL band
Foreign Voltage Detection	Yes

IP / Ethernet Testing Capabilities

Supported Ethernet Standards	10/100/1000BASE-T
Ping Test	Yes (with configurable packet size, count)
Traceroute Test	Yes
DHCP Client Emulation	Yes
PPPoE Client Emulation	Yes
FTP Client/Server	Yes (throughput, file transfer)
HTTP Web Browser	Basic browser for URL access verification
Throughput Testing (Upstream)	Yes (configurable data streams)
Throughput Testing (Downstream)	Yes (configurable data streams)
IP Address Configuration	Static IP, DHCP Client
VLAN Tagging Support	Yes (IEEE 802.1Q)
Quality of Service (QoS) Support	Display of DSCP/ToS values

WiFi Testing (Optional)

Supported WiFi Standards	IEEE 802.11 b/g/n (optional module)
Frequency Bands	2.4 GHz, 5 GHz (optional module)
Channel Scan	Yes (signal strength, channel utilization)
Signal Strength (RSSI)	Yes

Interfaces and Connectivity

Ethernet Ports	2x RJ-45 (Gigabit Ethernet)
POTS / RJ11 Port	Yes (dedicated or shared with DSL)
USB Ports	USB Host (Type A), USB Device (Mini-B)
Bluetooth Interface	Yes (v2.0 or higher, optional)
WiFi Interface	Yes (optional)

Power Specifications

Battery Type	Rechargeable Lithium-Ion
Battery Life (Typical Usage)	4-8 hours
AC Adapter Input Voltage	100-240 VAC, 50/60 Hz

Physical Characteristics

Case Material	Ruggedized ABS plastic with protective overmold
Display Resolution	320 x 240 pixels
Ingress Protection (IP) Rating	IP54

Environmental Conditions

Storage Temperature Range	-20 to +60 °C
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Software and Firmware

Operating System	Embedded Linux-based
Firmware Update Method	Via USB or Ethernet (download from web/server)
Data Logging Capacity	Stores thousands of test results internally
Report Generation Capabilities	On-device PDF reports, PC software export
Remote Management Support	Yes (via PC software or web interface)

Compliance and Certifications

Safety Certifications	CE Mark, FCC Part 15 Class A
EMC Certifications	CE Mark, FCC Part 15 Class A
Environmental Compliance	RoHS Compliant, WEEE Compliant

Included and Optional Accessories

Standard Accessories Included	AC power adapter/charger, rechargeable Li-Ion battery pack, DSL test leads (RJ-11), Ethernet patch cable (RJ-45), shoulder strap, protective carry case, Quick Start Guide, calibration certificate.
Optional Accessories Available	Vehicle charger, fiber optic test modules, WiFi test module, specialized test leads (e.g., alligator clips), external power meter probe, VoIP headset.

Environmental

Operating Humidity	5% to 95% RH, non-condensing
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TECHNOLOGY

DSL, Ethernet, POTS, IP

APPLICATIONS

Telecom field testing, DSL service activation, Network troubleshooting, IP service verification

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