

ADSL2+ ATU-R Module

SSMTT-44

Data Sheet



The **ATU-R** Module is part of a family of Plug-In modules for the SunSet MTT and xDSL test sets

The SSMTT-44 ADSL2+ ATU-R Module, part of the SunSet® Modular Test Toolkit (MTT) family of products, is a rugged, battery-operated handheld test solution geared for the Tier 1 technician tasked with fast and efficient ADSL2+ service verification. The ADSL2+ ATU-R module addresses the testing needs of service providers who are migrating to ADSL2+ for its superior bandwidth, extended reach and, as a result, its ability to deliver triple-play services, providing the right solution for new customers whether they need a low cost, simple tool or a more powerful diagnostic solution.

KEY FEATURES

- Link turn-up with far end DSLAM
- Pass through modem emulation
- Detailed modem/link status
- Link measurement
- Network connectivity verification
- Advanced features, including Trace Route, Web Access Test, IP DTE mode, ATM OAM, and Network Statistics

BENEFITS

- Lightweight
- Handheld
- Leverages existing MTT platform
- Cost-effective and future-proof
- Portable design for easy site-to-site transport
- One-button configuration and measurement simplifies and shortens testing time

APPLICATIONS

- ADSL, ADSL2, ADSL2+
- Network connectivity verification

SPECIFICATIONS

Chipset

Conexant Argon 432

ADSL Technologies

Annex A, Annex B

ADSL2+ (ITU-T G.992.5)

ADSL2 (ITU-T G.992.3) and Annex L

ADSL (G.dmt ITU-T G.992.1, ANSI T1.413)

G.lite (ITU-T G.992.2)

ATU-R Features

Modem Status Measurements

Rate

Maximum Rate

SNR Margin

Capacity

Attenuation

Transmit Power

Estimated Loop Length

Link Measurements

Counters for CRC, FEC, HEC, and NCD events

Errored Seconds, Severely Errored Seconds, Unavailable Seconds

Block Error Rate

Loss of Signal Seconds

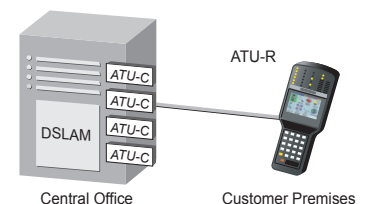
Retrans

Bits per Tone

Full graphical and tabular display

Event Tracer

Event type with time stamp



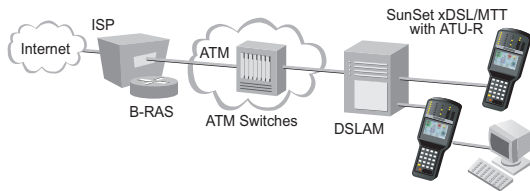
Basic IP Features

Protocol Standards Supported

- RFC 1483/2684: LLC-Bridged (Static & DHCP), LLC-Routed
- RFC 2364: PPP over ATM
- RFC 2516: PPP over Ethernet
- Encapsulation: VC MUX/LLC SNAP

Basic PING Test

PASS/FAIL results for PPP session and PING Test



10/100 Base-T Pass Through Modem Emulation

DHCP Server

Network Address Translation

Advanced Features Software Suite (SWMTT-DSL-ADV)

PING

- To URL or IP address
- Adjustable packet size from 64 to 1500 bytes

PING Statistics

- Number of Messages Sent, Received, and Loss Rate %
- Roundtrip Delay for Average, Maximum, and Minimum

PPP/DHCP Session Analysis

- IP Addresses for Local, Gateway, and Network Mask

Trace Route

VCC Scan

ATM OAM Test

- Automatic response to far end F4 & F45 OAM requests
- Transmit F5 End-to-End and Segment OAM commands

Network Statistics

Ethernet

- Transmit/Receive: Total Packets, Total Bytes, Bad Packets

ATM

- Transmit: Rate, Count
- Receive: Rate, Count, Dropped

Web Access Test

- HTTP web page download and FTP file download: Server response time, download size and duration, average download rate
- FTP file upload with user defined file size: Server response time, upload duration, average upload rate

IP DTE

- Advanced IP features & Web Access Test through 10/100 Base-T interface

Connectors

ADSL Line Interface (ATU-R): RJ-45 @ 100Ω

Ethernet Interface: 10/100 Base-T

Triple Play Features

Refer to IPTV Test Suite and VoIP Test Suite Data Sheets

PRODUCT DESCRIPTION

Module Size (WxLxH): 12.6 × 9 × 2.2 cm (5.0 × 3.5 × 0.9 in)

Operating Temperature: 0° to 50°C (32° to 122°F)

Storage Temperature: -20° to 70°C (-4° to 158°F)

Humidity: 5% to 85% noncondensing

ORDERING INFORMATION

SSMTT-44A	ADSL2+ ATU-R Annex A Module Includes basic PING Testing and Pass Through Modem Emulation without Statistics
SSMTT-44B	ADSL2+ ATU-R Annex B Module Includes basic PING Testing and Pass Through Modem Emulation without Statistics.
SWMTT-DSL-ADV	Advanced Features Software Suite Bundle for SSMTT-19, SSMTT-19A, SSMTT-44A, and SSMTT-44B. Supports the following features: ATM OAM, VCC Scan, Network Statistics, IP Statistics, IP Trace Route, Web Access Test*, and IP DTE*. *SSMTT-44A and -44B only

Recommended Cables

SS161	Cable, RJ-45 (m) to 3 Probe Clips, 2 m
SS167	Cable, RJ-45 (m) to RJ-45 (m), 2 m with Ferrite Filter
SS168	Cable, RJ-45 (m) to RJ-11 (m), 2 m with Ferrite Filter

For more information or a directory of sales offices: info@sunrisetelecom.com | www.sunrisetelecom.com

