

ADSL2+ ATU-R Module

SSMTT-19

Continuing Sunrise Telecom's leadership in DSL Access test solutions is the new ADSL2+ ATU-R Module, addressing emerging next generation ADSL technologies including ADSL2, ADSL2+, Reach Extended ADSL2, as well as legacy ADSL. The new ATU-R module features the industry's simplest one-button test for efficient service verification and is supported by all SunSet MTT/xDSL host chassis.



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

SPECIFICATIONS

Chipset: TI AR7

ADSL Technologies

ADSL2+ (ITU-T G.992.5)
 ADSL2 (ITU-T G.992.3)
 Reach Extended ADSL2 (ITU-T G.992.3 Annex L)
 G.dmt ADSL/POTS and S = 1/2 option (ITU-T G.992.1 Annex A and ANSI T1.413)
 G.lite (ITU-T G.992.2)

ATU-R Features

Modem Status Measurements
 Downstream Rate
 Upstream Rate
 SNR Margin
 Maximum Attainable Rate
 Capacity
 Attenuation
 Latency Path Mode: Fast or Interleaved
 Link Measurements
 Counters for CRC, FEC, HEC events
 Errored Seconds, Severely Errored Seconds, Unavailable Seconds
 Block Error Rate
 Loss of Signal Seconds
 Retrans
 Bits per Tone/SNR per Tone: Full graphical & tabular display

Basic IP Features

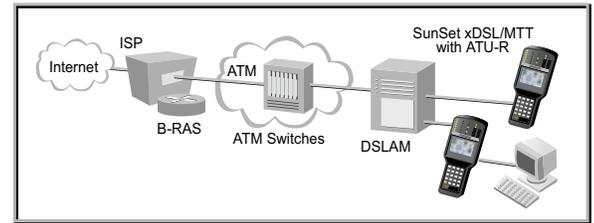
Protocol Standards Supported
 RFC 1483/2684: LLC-Bridged (Static & DHCP), LLC-Routed
 RFC 2364: PPP over ATM
 RFC 2516: PPP over Ethernet
 Encapsulation: VC MUX/LLC SNAP
 Basic PING Test
 PASS/FAIL results for: PPP session, PING Test

Connectors

ADSL Line Interface: RJ-45 @ 100Ω
 Ethernet Interface for Data: RJ-45 10/100 Base-T

Advanced Features Software Suite (SWMTT-19ADV)

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

Protocols Supported: ICMP and UDP
 Up to 30 Hops on the IP Network
 VCC Scan: Scan up to 8 active VPI and VCI
 ATM OAM Test

Automatic response to far end F4 & F45 OAM requests
 Transmit F5 End to End and Segment OAM commands
 Network Statistics (In-Service)

Ethernet

- Transmit: Frames (Good, Broadcast, Multicast, Error), Collisions, Carrier Sense Errors, Total Bytes
- Receive: Frames (Good, Broadcast, Multicast, Under-sized), CRC Errors, Overruns, Total Bytes

ATM

- Transmit: Cells (Good, Idle), PDUs, Total Bytes, Total Errors
- Receive: Cells (Good, Idle, Bad HEC, Dropped), PDUs, Total Bytes, Total Errors

General

Module Size: 5.0" (W) x 3.5" (L) x 0.9" (H) [12.6 cm x 9 cm 2.2 cm]

ORDERING INFORMATION

SSMTT-19	ADSL2+ ATU-R Module Includes Basic PING Testing
SWMTT-19ADV	Advanced Features Software Suite Supports the following features: ATM OAM, VCC Scan, Network Statistics, IP statistics, and IP Trace Route.

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

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