Sunrise Telecom Sunset MTT SSMTT-19 Specs Provided by www.AAATesters.com

SUNRISE TELECOM® SunSet MTT® ACM II Chassis

Data Sheet



The SunSet MTT ACM II Chassis features a family of plug-in modules, providing a wide variety of testing capabilities for the Access Network

The Advanced Cable Maintenance (ACM II) Chassis, part of the SunSet Modular Test Toolkit (MTT) family of test sets, is a rugged, batteryoperated test solution for installation and maintenance of physical layer access network services. The new SunSet MTT ACM II is the industry's premier handheld test system designed to qualify copper cables at VDSL2 frequencies, readying service providers for triple play deployments.

The ACM II covers an industry best frequency range from voiceband to 30 MHz – necessary for VDSL2 qualification based on FTTN or MDU architectures. Our patented 'detaptor' feature helps identify short bridge taps, which are especially harmful for VDSL2 transmission. In addition, ACM II offers key voice frequency features that are common to industry methods and procedures. Using the SunSet MTT ACM II enables service providers to complete installations in less time and with greater confidence in the quality of service delivered to customers.

KEY FEATURES

- Color display
- Easy-to-use interface
- Fast and easy one-button auto test
- Dual trace TDR for in-depth fault location
- RFL to locate resistance faults
- Spectrum analyzer 30 MHz PSD background noise
- 30 MHz insertion loss
- Voice frequency features
 - Longitudinal balance
 - Circuit noise and power influence
 - Power harmonics analysis
- Detaptor (patented) to determine lengths of bridge taps
- Supports many SSMTT/SSxDSL test modules

BENEFITS

- Handheld and portable
- Flexible and dynamic
- Copper qualification with extended VDSL2 frequency range
- Standard POTS installation tests
- Convenient and cost-effective
- Integrated cable maintenance features
- Enhanced troubleshooting and repair
- Complete FTTn/x testing in one package



Advanced Cable Maintenance Features

TDR

Display Options

Single Trace

Dual Trace (Split Screen, Overlap, Difference, Recall) Distance Range: Dependent on cable type and condition

English	
Cable Gauge	Distance Range
22 AWG	15 ft. to 24000 ft.
24 AWG	15 ft. to 18000 ft.
26 AWG	15 ft. to 12000 ft.

Metric	
Cable Gauge	Distance Range
0.6 mm	3 m to 7200 m
0.5 mm	3 m to 5400 m
0.4 mm	3 m to 3600 m

Display Resolution: 0.6% of selected range Pulse Widths: 12 nS to 4 μ S, autoselect Output Impedance: 100 Ω Vp: 0.4 to 0.99 in 0.01 increments Automatic search to first fault

RFL

0Ω to 100Ω > 100Ω to 1000Ω > 1000Ω to 4000Ω

DC Voltage

Range: 300V Max Accuracy: $\pm 0.5\% \pm 10$ mV

AC Voltage

Detector: True RMS Range: 250 VAC Max Accuracy: \pm 1% \pm 20 mV for 20 Hz to 1 kHz

Resistance

 $\begin{array}{l} \text{Range: } 1\Omega \text{ to } 100 \text{ M}\Omega \\ \text{Accuracy} \\ \pm 1\% \pm 1\Omega \text{ for } 1\Omega \text{ to } 1 \text{ M}\Omega \\ \pm 2\% \text{ for } > 1 \text{ M}\Omega \text{ to } 4 \text{ M}\Omega \\ \pm 5\% \text{ for } > 4 \text{ M}\Omega \text{ to } 100 \text{ M}\Omega \end{array}$

Capacitance

Range: 1 nF to 2 μ F Accuracy \pm 2% \pm 300 pF for 1 nF to 1 μ F \pm 5% for > 1 μ F to 2 μ F

Current

Load: 430Ω Range: 0 mA to 110 mA Accuracy: $\pm 2\% \pm 0.1$ mA

Insertion Loss

Range: 0 to 80 dB Accuracy: ± 2 dB Frequency response sweep from 13 kHz to 30 MHz Detaptor: Bridge Tap Detection (Patented)

WB Background Power Spectral Density (PSD) Noise

Frequency Range: 13 kHz to 30 MHz Resolution Bandwidths: 4.3125 kHz, 34.5 kHz Level Range: -30 to -140 dBm/Hz

VF Background Power Spectral Density (PSD) Noise

Frequency Range: Up to 6000 Hz Level Range: 10 dBrn to 90 dBrn

Power Harmonics Frequency Range: Up to 6000 Hz

Level Range: -50 dBm to 40 dBm

VF Metallic Noise

Range: 0 dBrn to 90 dBrn Resolution: 1 dBrn Accuracy \pm 1.5 dB from 10 dBrn to 90 dBrn \pm 2 dB from 0 dBrn to 10 dBrn Filter: C-Message Impedance: 600 Ω

Power Influence (Noise-to-Ground)

Range: 40 dBrn to 130 dBrn Resolution: 1 dBrn Accuracy: ± 1.5 dB Filter: C-Message

Longitudinal Balance

Frequency: 1 kHz Range: 0 to 70 dB Accuracy: ± 2 dB

Impulse Noise

Threshold Range: 50 dBrn to 100 dBrn Dead Time Range: 100 μ S to 255 mS Max Count Range: 1 to 9999 Timer: Settable from 1 to 999 minutes or continuous

Signal-to-noise

Frequency range: 13 kHz to 30 MHz

Near End and Far End Crosstalk (NEXT/FEXT) Frequency range: 34.5 kHz to 30 MHz

Auto Test User selectable tests with CSV output Reports PASS/FAIL/MARGINAL status where applicable

Load Coil Detector Graphic and count

Cable Pair Detect Audible connectivity verification

Transmitter

Frequency Range: 10 kHz to 30 MHz Frequency Resolution: 0.1 kHz Frequency Accuracy: \pm 25 ppm Levels: 0 to -40 dBm in 1 dB steps Level Accuracy: \pm 1 dB Output Impedance: 100 Ω balanced

Receiver

Measurement Method: FFT Frequency Range: 13 kHz to 30 MHz Frequency Resolution: 4.3125 kHz Level Range +5 to -80 dBm for 13 kHz to 18 kHz +10 to -80 dBm for > 18 kHz to 30 MHz Level Resolution: 0.1 dB Level Accuracy: \pm 1 dB Input Impedance: 100 Ω balanced

PRODUCT DESCRIPTION

Size (W × L × H): 4.1 × 10.6 × 2.6 in (10.5 × 27 × 6.5 cm)
Weight: 3.5 lb (1.6 kg)
Display: Backlit 240 × 320 dot STN indoor/outdoor Color screen; CFL Backlight
Connectors: Five 2 mm banana test leads
LEDs: 20 bi-color
Serial Port: 8-DIN, RS-232C (V.24) DTE
DC Power Jack
Battery: Rechargeable, field replaceable NiMH pack
Charger: Universal 100-240 VAC adapter with IEC connector
Operating Temperature: 23° to 113°F (-5° to 45°C)
Storage Temperature: -4° to 158°F (-20° to 70°C)
Humidity: 5% to 85% noncondensing

ORDERING INFORMATION

SSMTT-ACM2

SunSet MTT ACM II Includes a high resolution color display, mini-banana interface, and the following standard features: Dual and single trace TDR, DMM, Load Coil Detector, Metallic Noise, Power Influence, Longitudinal Balance, Cable Pair Detect, and Impulse Noise. Also includes standard 2.2 MHz measurement range for the following features: Insertion Loss, PSD Background Noise, Signal to Noise, and Frequency Generator. Standard Accessories include test cables, SunSet Jacket, and Certificate of Calibration.

SWMTT-ACM2-VDSL

Extended VDSL Range Features for SunSet MTT ACM II Includes extended VDSL measurement range for the following features: Insertion Loss, PSD Background Noise, Signal to Noise, and Frequency Generator. Also adds NEXT and FEXT features.

SWMTT-ACM2-RFL

RFL Features for SunSet MTT ACM II Includes Resistance Fault Locate features for the SunSet MTT ACM II

Replacement Accessories

SA274	Cable, 2 mm Test Leads (Black/Red) with bed-of-nails
	alligator clips, 6'
SA275	Cable, 2 mm Test Lead (Green) with bed-of-nails alligator
	clips, 6'
SA276	Cable, 2 mm Test Leads (Yellow/Blue) with bed-of-nails
	alligator clips, 6'
SA277	Cable, 2 mm Test Leads Kit (set of five cables)
SA278	Cable, RFL Strap
SA601	Jacket, SunSet MTT Family

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