

UDSL-3Play Module

MTT-48

Data Sheet



The UDSL-3Play Module for the MTT Platform

The UDSL-3Play Module for the MTT Platform addresses key test requirements for Triple Play services deployed over a 'Universal' DSL access network. Features include VDSL2 and ADSLx infrastructure tests and services testing for Data, Video, and VoIP, enabling network service providers to verify and ensure these new IP based services are properly delivered to end users. Another benefit is the support of Triple Play Services features at both the DSL and 10/100 Ethernet test interfaces, enabling technicians to sectionalize problems at the Customer Premises.

KEY FEATURES

- CPE Emulation for VDSL2, ADSL2+, ADSL2, and ADSL1.
- One Button Test providing key DSL layer metrics including Data Rate, SNR Margin and line errors.
- Triple Play Services testing for IP Data, IP Video, and VoIP for both 10/100 Ethernet and DSL test interfaces.
- CO Emulation capability for CPE verification and pre-qualification tests.

BENEFITS

- Provides Universal DSL infrastructure test capability, all-in-one.
- Eliminates the need for multiple VDSL /ADSL / IP services test equipment.
- Simple, intuitive user interface.
- Leverages the MTT Platform, the industry leader for handheld field test solutions.
- The combination of an MTT ACM II Host Chassis with the UDSL-3Play Module is the ultimate all-in-one test tool for DSL based Triple Play services, enabling thorough verification of the copper infrastructure and the Triple Play IP services that are delivered over the DSL pipe.

SPECIFICATIONS

DSL Standards

ITU-T G.993.2 VDSL2

Profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a

ITU-T G.992.5 ADSL2+ Annex A, B, L, M

ITU-T G.992.3 ADSL2 Annex A, B, L, M

ITU-T G.992.1 ADSL1 Annex A, B

ANSI T1.413 ADSL1

G.992.5 Amendment 3 INP support

Modes: XTU-R CPE and XTU-O CO

Note: VDSLx mode, ADSLx mode and CO mode are orderable options.

DSL Features

Actual Data Rate

Maximum Attainable Rate

SNR Margin

Capacity

Attenuation

Latency Path

INP

Interleaved Delay and Depth

Transmit (Output) Power

CRC, FEC, HEC, SEF counters

Number of Retrans

Bits per Tone

SNR per Tone

Event Tracer

SPECIFICATIONS (CONTINUED)

IP Data SW Suite Features (optional)

DSL and 10/100 Ethernet Interface Terminate Mode

IP Data Pass Through Mode: DSL to LAN

PING Statistics

Sent, Received, Loss Rate, Round Trip Delay

Trace Route

Web Access Test

FTP Upload and Download

HTTP Download

Protocols

RFC 2684 Bridged, Static and DHCP

RFC 2516 PPP over Ethernet with PAP/CHAP authentication

RFC 2364 PPP over ATM with PAP/CHAP authentication

RFC 2225 Classical IP over ATM

Encapsulation: LLC or VC Mux

Packet Transfer Mode (PTM) for IP DSLAMs

IP Video SW Suite Features (optional)

DSL and 10/100 Ethernet Interface Terminate Mode

Transport Stream

MPEG2-TS UDP/RTP

Encoders

MPEG2, MPEG4 Part 2, MPEG4 Part 10 / H.264, VC-1

STB Emulation

IGMP Multicast Client V2 and V3

STB Registration via DHCP Options 60, 61, 43, and 77

Supports up to four video streams

Transport Stream Measurements

Packet Count: Received, Expected, Lost, Loss Rate

Packet Jitter

IGMP Latency

Inter Packet Gap

TS Rates: Total, Video, and Audio

PID Analysis

PID Number, Type, and Description

Channel Test

Channel Change Delay – IGMP Latency (Zap Time)

Channel Bandwidth

Media Delivery Index (MDI per RFC 4445)

Delay Factor

Media Loss Rate

MDI is licensed from IneoQuest™

Video On Demand (VOD) Analysis

RTSP Unicast Client

Describe and Play Media

Packets: Received, Dropped, Jitter

Voice Over IP SW Suite Features (optional)

DSL and 10/100 Ethernet Interface Terminate Mode

Protocols:

SIP

H.323

CODEC:

G.711μ

G.711a

G.723.1 – 5.3k, 6.3k

G.726 – 16k, 24k, 32k, 40k

G.729a

G.729ab

IP Phone Emulation

Place and Receive Calls

Transmission of Pre-Installed Audio Files for Voice

Traffic Simulation

Call Events and Messages

Call Statistics

RTP Packet Count, Lost, Dropped

Packet Jitter

Voice Quality Measurements

Mean Opinion Score (MOS): Listening and Conversational Quality

R-Factor: Listening and Conversational Quality, GAP, and BURST

Product Description

Module Size (W × L × H): 12.6 × 9.0 × 2.2 cm (5.0 × 3.5 × 0.9 in)

DSL Interface: RJ-45 @ 100Ω

Ethernet Interface: RJ-45 10/100 Base-T

ORDERING INFORMATION

Base Module

SSMTT48-ADSLX . . . UDSL-3Play Module with ADSLx Mode

SSMTT48-VDSLX . . . UDSL-3Play Module with VDSLx Mode

Software Options

SWMTT48-ADSLX . . . ADSLx mode for SSMTT48-VDSLX Base Module

SWMTT48-VDSLX . . . VDSLx mode for SSMTT48-ADSLX Base Module

SWMTT48-DATA . . . IP Data SW Suite

Includes PING Test with statistics, Trace Route, and FTP/HTTP Web Access Test for both DSL and 10/100 test ports.

SWMTT48-VIDEO . . . IP Video SW Suite

Includes IP Video Transport Stream measurements, PID Analysis, Channel Test, MDI Measurements and VOD Tests for both DSL and 10/100 test ports.

SWMTT48-VoIP . . . VoIP SW Suite

Includes SIP and H.323 protocols with Call Features, RTP packet statistics and Voice Quality measurements for both DSL and 10/100 test ports.

SWMTT48-COCO Mode

Note: The UDSL-3Play Module is supported on most MTT Platform host chassis including the MTT-ACM series, MTT-C, and MTT-B. It is not supported on XDSL Full and MTT-EX host chassis.

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

Phone: +1-800-701-5208 or +1-408-363-8000