

# Sunrise Telecom Home Test Kit Specs

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SUNRISE TELECOM

# HTT

Home Test Toolkit

Data Sheet



Home Test Toolkit  
For FTTN Installation

The Home Test Toolkit (HTT) is a new addition to the vast variety of products currently offered by Sunrise Telecom. The HTT provides customers with a test tool specifically tailored to mass market FTTN deployment. This innovative product provides automatic "Go/No-Go" test routines for VDSL, Home Phoneline Networking Alliance (HPNA) networks, RF video, Ethernet, 802.11x wireless, copper loop fault identification, POTS (plain old telephone service) testing, and in-home wiring identification and testing.

## FEATURES

- VDSL VTU-R
- HPNA Analysis
- Cable Test
- POTS
- DC Voltage and Ohm Measurements
- Wireless (802.11) Analysis
- RF Signal Level Meter
- Ethernet Link Verification
- Auto Test
- PC Utility (Bluetooth)

## BENEFITS

- Low cost
- All-in-one test set
- Go/No-Go service verification
- Rapid installation
- Simple pass/fail display
- Easy-to-use

## PERFORMANCE OBJECTIVES

### Chipset

VDSL Chipset: Conexant Accelity Packet EoVDSL CPE

HPNA Chipset: CopperGate CopperStream CG3010

### Connectors (Interfaces)

VDSL: RJ-11 @ 100Ω

HPNA: RJ-11 and replaceable F-81 75Ω (coaxial) connector

Cable Test: RJ-45

POTS/DC/Ohm: RJ-11

SLM: Replaceable F-81 75Ω (coaxial) connector

Ethernet: RJ-45

Headset: 2.5 mm jack

### VDSL VTU-R Features

Line Code: Discrete MultiTone (DMT)

#### Standards

ITU-T G.993.1

ANSI T1.424

ETSI TS 101 270

#### Modem Status Measurements

Current Rate

Maximum Rate

SNR Noise Margin

Capacity

Attenuation

Output Power

Delay

#### Link Measurements

Counters for CRC, FEC, and HEC

Counters for LOS, SEF, NCD, OCD

Errored Seconds, Severely Errored Seconds, Unavailable Seconds

Number of Link Drops

#### Tone Table

Bits per Tone: Full graphical and tabular display

SNR per Tone: Full graphical and tabular display

Modem Setup Features: Select between Band Plan 998 or 997

Safe Mode: Compatible with Alcatel 7330 ISAM

## HPNA Receiver/Analyzer

Host and Client mode: User selectable  
Auto-discover HPNA stations and MAC addresses  
Auto Test between user selected stations  
Data Rate  
Power Level  
Signal-to-Noise Ratio (SNR)  
Transmit and Receive Packets  
Packet Loss  
User configurable Packet count and length  
Test coaxial and twisted pair HPNA networks

## Cable Testing

Wiremap  
Wire mapping for RJ-45 8-pin twisted pair cable  
Maximum cable length: 500 ft/150 m  
Displays connected, open, short, and map  
Cable Loss (Coaxial and Twisted Pair)  
Test Signal: 7 and 14 MHz  
Dynamic Range: 35 dB  
Level Accuracy:  $\pm 2$  dB  
Diplexer Verification  
Provide estimated cable length (Twisted Pair Only)  
Cable ID (HTT-ID-5)  
Connectors: RJ-11, F-81 coaxial  
Provide termination for cable identification  
Wiremap Probe (HTT-WP)  
Connectors: RJ-45 and Replaceable F-81 coaxial  
Accuracy:  $\pm 0.5$  dB  
Uses 2 x AA batteries  
Auto Shut Off: 5 minutes

## POTS/Caller ID

Loop Start, DTMF dialing, Caller ID  
Talk/listen via headset  
DC Voltage  
Range: 0 to  $\pm 200$  Vdc  
Accuracy:  $\pm 5\% \pm 1V$   
Ohm Measurements  
Range: 100 $\Omega$  to 1 M $\Omega$   
Accuracy:  
– 100 $\Omega$  to 100 k $\Omega$   $\pm 2\% \pm 100\Omega$   
– > 100 k $\Omega$  to 300 k $\Omega$   $\pm 5\%$   
– > 300 k $\Omega$  to 1000 k $\Omega$   $\pm 10\%$   
Tone Generation Frequency: 570 Hz

## Wireless

Detect 802.11 b/g SSID  
Signal Strength  
Channel Identification  
MAC Address Identification  
Support WEP 64 and 128 bytes encryption

## Signal Level Measurement (SLM)

Input Frequency Range: 575 to 1000 MHz  
Measurement Range: -10 dBmV to +55 dBmV  
Maximum RF Input: +55 dBmV  
Adjacent Channel Rejection: 45 dB

Level Accuracy:  $\pm 2$  dB Typical  
Level Resolution: 0.5 dB  
Input Impedance: 75 $\Omega$   
Tuning Resolution: 62.5 kHz

## Ethernet

Link Status  
Link Speed (10/100M, Half/Full Duplex)  
Conforms to IEEE 802.3

## PC Utility

Bluetooth and Ethernet Interfaces  
Configurable Threshold Criteria and result download (CSV)

## PRODUCT DESCRIPTION

Chassis Size (WxLxH): 7.7 x 2.4 x 4.0 in (190 x 53 x 96 mm)  
Operating Temperature: 32° to 113°F (0° to 45°C)  
Storage Temperature: -4° to 158°F (-20° to 70°C)  
Humidity: 5% to 85% noncondensing  
Battery: Li-Ion battery with smart battery system  
Screen: 64 by 128 pixels, black and white with back light and graphical capabilities

## ORDERING INFORMATION *(Check factory for availability)*

HTT	Home Test Toolkit Test Set Includes: POTS, DC Test, VDSL, HPNA, SLM, Ethernet Check 10/100, Cable Test Function, Wireless 802.11 signal meter, 802.11 IFD (PC) connection, charger, manual
HTT-BT	Bluetooth IFD (PC) connection option
HTT-CTK	Copper Loop Testing option
HTT-WP	HTT Wiremap Probe for Twisted Pair, Cat 3/5 & Coaxial cable
HTT-ID-5	HTT Cable-ID Responder 5-Pack, Address 1-5
HTT-ACC-KIT	HTT Accessory and Cable Kit Includes: SA313 earbud headset, SA671 carrying case, SA297 RJ-11 to Clip Lead Cable 6', SA298 RJ-11 to Coaxial (F-type connector) Cable 6', SA150-NA RJ-11 to RJ-11 Cable 6', SA310 Coaxial cable (male to male F-type connector) 6', SA312 Coaxial adapter (female to female F-type Connector), SA311 Coaxial snap-on adapter (screw-on to push-on F-type connector), and SA318 RJ-45 to RJ-11 and Coaxial F-type connector
SA317	Vehicle Charger

## Replacement Accessories

SA150-NA	RJ-11 to RJ-11 cable, 6'
SA185	Battery Pack, HTT
SA186	AC Charger, HTT
SA187-NA	Power Cord, HTT
SA297	RJ-11 to clip lead cable, 6'
SA298	RJ-11 to coaxial (F-type connector) cable, 6'
SA310	Coaxial cable (male to male F-type connector), 6'
SA311	Coaxial snap-on adapter (screw-on to push-on F-type connector)
SA312	Coaxial adapter (female to female F-type connector)
SA313	Earbud Headset
SA318	Cable Assembly, RJ-45 to RJ-11 and Coaxial F-type connector
SA671	Carrying Case
SA976	HTT User's Manual

For more information or a directory of sales offices: [info@sunrisetelecom.com](mailto:info@sunrisetelecom.com) | [www.sunrisetelecom.com](http://www.sunrisetelecom.com)