

Touchstone® Universal CPE Test Station



Application

The Touchstone Universal CPE Test Station (UCTS) is a comprehensive test bench solution designed to assist operators in qualifying the functionality of cable modems and embedded multimedia terminal adapters (E-MTA) returning from the field for any number of reasons. The Touchstone UCTS is capable of simultaneously testing up to eight DOCSIS® compliant devices at a time.

A Complete Test Solution for VoIP Subscriber Premise Equipment

Leveraging our rich heritage in the development of world-class subscriber premises equipment, ARRIS is pleased to offer a complete solution for the efficient testing and reclamation of Cable Modems and Embedded Multimedia Terminal Adapters (E-MTA). The Touchstone UCTS offers the call agent, CMTS, and provisioning functions all rolled into a single chassis solution – thereby enabling the operator to fully test subscriber equipment without connecting to or otherwise simulating their operating environment.

Easy-to-Use, Flexible Software – Customize for your Unique Deployment

The UCTS employs custom software that can be managed via a straightforward graphical user interface. The administrator can set up to four unique access levels, and device profiles can be easily defined to customize the platform to test only those devices deployed in your network. All testing is driven by the user interface, which clearly prompts the user every step of the way. Tests can be most simply driven using a scanner device, eliminating the possibility of manual input error. Little to no DOCSIS or PacketCable experience is required.

ARRIS has further expanded the UCTS functionality in the new UCTS Release 2.0 software release. This release provides many operational enhancements and addresses interoperability issues with other DOCSIS certified devices. Highlights include automated call testing and device provisioning, customizable report generation, ARRIS CPE age detection, and increased CPE coverage for other DOCSIS devices.

Comprehensive CPE Capital Management

Whether returning from the field as a “failed unit” or as part of normal service churn, the UCTS provides a means to identify quickly and accurately the operational status of your CPE. This translates to an improved installation process, ability to avoid the costly accumulation of stranded CPE “bonepiles”, and tangible savings in shipping / handling, possible “no problem found” charges, and lost revenue opportunity.

With the ARRIS UCTS, there is no need to have separate test stations per CPE device – test all of your DOCSIS compliant cable modem and embedded multimedia terminal adapters using one station!

There is no longer a need to keep records of CPE field failure history. The UCTS maintains a complete database of test records, vigilantly watching for “repeat offenders,” so that operators can make informed RMA decisions. The UCTS even takes the difficulty out of the RMA process by printing a test report, which can easily be affixed to any failed CPE that is to be returned to the vendor.



- Eliminate all stranded capital! Get cable modems and E-MTAs back into the field and generating revenue quickly!
- Complete, stand-alone system. No connection to plant or back-office required.
- Test any vendor's cable modems or E-MTAs with user-definable profiles!
- Simple to use! Click + scan tests. Little or no PacketCable / DOCSIS knowledge required.
- Simple manipulation of test records. Watch for “repeat offenders” and print test reports for simplified RMAs.

Touchstone® Universal CPE Test Station



Specifications

Physical:	Operating Temperature °F (°C)..... 50 to 104 (10 to 40) Operating Relative Humidity(Min.-Max.) 10-90% (Non condensing) Storage Temperature °F (°C)..... -40 to 140 (-40 to 60) Color..... Black Dimensions (H x W x D) in. 68.0 x 22.1 x 32.4 (cm)..... (172.7 x 56.1 x 82.3) Weight lbs (kg)
Interfaces:	RF Interface Sixteen (16) External 'F' type connectors (8 active, 8 for future growth) Data Interfaces Eight (8) 10/100 Base-T Ethernet RJ-45 Eight (8) USB 1.1, Series B Receptacles Telephony Interface Sixteen (16) RJ-11 Input Power (nominal): NA Variant:.. 100/120 Vac, 50/60 Hz, 8 amps, NEMA 1-15 Plug Euro Variant: 220/240 Vac, 50 Hz, 6 amps, CEE7 Plug Power Interfaces (for UUT): NA Variant: Eight (8) NEMA 1-15 Receptacles, each w/ switch and 2.0A breaker Euro Variant: Eight (8) CEE7 Receptacles, each w/ switch and 2.0A breaker Keyboard PC PS/2 Keyboard Monitor 17" LCD Flat Panel Monitor Mouse PS/2 Mouse Scanner PS/2 Barcode Scanner Printer Desktop PC Label Printer
Operating Systems:	PC System #1 (GUI) Windows XP Professional, Service Pack 2 PC System #2 (Call Agent)Fedora Core 2 running ALPS v9.1 Cadant C3 ARRIS CLI Version .02
PC System Details:	CPU..... Intel 2.0 GHz, 400 MHz FSB, 478 in, Pentium IV Motherboard..... Pentium IV, 865G chipset, AGP, PCI ATX Memory 512 MB LP CL=2.5 NON ECC 266 MHz RAM Drives Single ATA/133, 7200 RPM, 80 GB IBE Hard Drive 250 MB, internal ATAPI ZIP Drive 52X, CD-ROM IDE Drive Interfaces Two (2) 4-port Ethernet Adapters Two (2) quad-port, PCI USB Cards One (1) NI PCI-6224 DAQ Card (32 analog + 48 TTL/CMOS digital I/O) Single-port RS232 Interface Card NI PCI 6224 (DAQ) Analog Input Resolution 16 bit NI PCI 6224 (DAQ) Input Range +/- 10v per channel
LC Interface Box:	Attenuation 6:1 ratio Accuracy +/- 5% Line Termination 4 REN (NA variant), 1 REN (Euro variant) Line Multiplexing 8 lines (simultaneous) Operating Voltage 120 VAC Frequency Response (Hz) 100 to 5000 Ringing Voltage (V max) 100 Ringing Frequency (Hz max) 100
RF Interface Box:	Frequency Range (MHz).....DC to 650 Impedance (ohms) 75 Through Loss (dB) 21.5 (+/- 0.5) Operating Voltage 12 VDC Step-to-Step Accuracy (dB) +/- 0.1 below 30 dB +/- 0.2 below 60 dB +/- 0.3 below 80 dB +/- 0.4 below 95 dB +/- 1.0 below 127 dB

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. ARRIS, the ARRIS logo, Cadant®, D5™, Touchstone®, Cornerstone®, Keystone™, C4®, C3™, CXM™ Regal®, MONARCH®, Digicon® and TeleWire Supply® are all trademarks of ARRIS International, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2007 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc., is strictly forbidden. For more information, contact ARRIS.

Ordering Information

ARRIS Universal CPE Test Station (DOCSIS 2.0, 110VAC 50/60 Hz Power Supply & NEMA 1-15 Plug)	719304
ARRIS Universal CPE Test Station (Euro-DOCSIS 2.0, 220VAC 50 Hz Power Supply & CEE 7/16 Plug)	719305
Spare RF Interface Box (for use w/ ARRIS Universal CPE Test Station)	719376
Spare LC Interface Box (for use w/ ARRIS Universal CPE Test Station)	719377
Spare Cadant C3 CMTS (configured for operation in the ARRIS Universal CPE Test Station)	713918
UCTS Release 2.0 Software Upgrade (CD-ROM software upgrade including auto provisioning, configurable reports, etc.)	TBD
UCTS Call Automation Testing Upgrade (Includes PERL Modem card, connectors, installation manual and instructions, requires UCTS Release 2.0 software)	721180