Product Introduction

ME7832L
LTE Protocol Conformance Test System
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TS36.523 LTE Protocol Conformance Solution
Approved LTE Protocol Conformance Solution

- ME7832L is the Industry’s stable protocol conformance test system solution
  - Delivers latest test cases for LTE UE protocol conformance
  - Based on TS36.523-1 for GCF/PTCRB Terminal Certification

- Proven platform to provide LTE Conformance Test Capability
  - Rel8 LTE Conformance Test solution delivered on Single HW and software platform
  - Capable to provide LTE ↔ UTRAN/GERAN InterRAT (future option)

- ME7832L is the most reliable and fastest Protocol Conformance Test System with Repeatability
  - Industry best test execution speed with Parallel Test Capability (Future Option)
ME7832L LTE CT System Overview

Anritsu

MD8430A (LTE #1)

Sync 10MHz

Option-060/061

Sub (Simplex) Input 1,2

Sub (Simplex) Output 1-4

Ethernet

Option-055/056

Ethernet HUB

PC for PCTS with Monitor

UE

Option-054

MN8141A Combiner Unit

Sub (Simplex) Input 1,2

Sub (Simplex) Output 1-4

Ethernet

Option-054

Sync
LTE Protocol Conformance Test System

- ME7832L Standard Configuration
  - One MD8430A system simulator (LTE)
  - Conformance Test Toolkit core software
  - Pre-installed high-performance PC
    - Dual Core 3 GHz CPU, 4 GB RAM
    - 21” inch HD Display, 250 GB HDD, DVD
- Setup
  - Installation
  - Commissioning
  - Training
LTE Protocol Conformance Test System

- ME7832L Optional Configurations
  - Choice of adding 2nd LTE system simulator for additional test coverage
  - WI packages including USIMs
  - RF Combiner Kit
  - Router and cables
  - Additional FDD Band capabilities
  - Contracts
    - Hardware repair
    - Hardware calibration
  - System Rack Option
Anritsu Competitive Advantages

• LTE Protocol Conformance test Platform for UE certification
  – For both GCF and PTCRB
• Anritsu leads the market for new technologies on the existing and new hardware platform
• Always aims to use the latest TTCN3 language
  • Latest IWD releases
• A highly reliable platform and the most stable platform
  – Runs without manual interaction for days under Automated Environment
• Uses less space in the lab
• Provides today’s most user-friendly and easy GUI
  – Enables drag-and-drop and run with a single click
• Easiest setup for automation capability
• Real-time log analysis
• Best customer support and responsiveness in the industry
ME7832AL Solution Benefits

• A complete fully-integrated test system
  – Simplified system options
    • Easier configuration
  – New competitive pricing structure based on a package solution
  – Installation and training included
    • One day on-site
    • One year software and firmware updates included
• GCF/PTCRB Approved Test Platform for UE Certification
• Future expandability for LTE InterRAT (LTE ↔ UMTS and LTE ↔ C2K)
• Graphical User Interface
  – Provides exceptional ease of use
• Standard MD8430A system simulator hardware
  – Proven repeatability and reliability
• Custom Test case development and Execution Capability
  – Inbuilt TTCN3 Viewer to view and analyse the 3GPP TS 36.523 LTE Protocol Test Cases
  – TTCN3 Editor and Builder Option for custom TTCN3 development based on 3GPP TS36.523
ME7832L LTE System Configuration Options

ME7832L Standard Configuration

- ME7832L-055
  2nd SS for LTE

- MN8141A
  RF Combiner Unit

- ME7832L-01X
  Frequency Bands

- ME7832L-0XX
  Work Item Test Cases
Graphical User Interface Benefits
Graphical User Interface

• New user interface developed
  – Test system configuration
  – Test Campaign definition
  – PICS/PIXIT management
  – Campaign execution
  – Results management and reporting

• New Graphical User Interface with ease of use
  – Drag and Drop
  – Single Click to execute the campaign consist of test cases
Test Cases Selection

Sort by TTCN Suite or WI

Expand to view tests and execute single tests
Drag & Drop Test Case Into Test Sequence

Highlight test cases

Drag and drop to Test Sequence window
Modifying PICS/PIXIT For UE

Create/Edit Pixit Deviations
Executing Test Sequences

Click to execute test sequences
Viewing Test Results

- Left click and to launch Protocol View
- Sort by pass/fail or re-run failed tests
Protocol Analyser View

Decoded message details

Left click and to decode the data
TTCN-3 Viewer

TTCN-3 Source Code View

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## Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>WI</td>
<td>Work Item</td>
</tr>
<tr>
<td>IWD</td>
<td>Interim Working Document</td>
</tr>
<tr>
<td>PCT/PCTS</td>
<td>Protocol Conform Test / Protocol Conformance Test System</td>
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<tr>
<td>LTE</td>
<td>Long Term Evolution</td>
</tr>
<tr>
<td>CAG/PVG</td>
<td>Conformance and Interoperability Agreement Group / PCS Validation Group</td>
</tr>
<tr>
<td>PICS</td>
<td>Protocol Implementation Conformance Statement</td>
</tr>
<tr>
<td>TTCN-3</td>
<td>Testing and Test Control Notation Version 3</td>
</tr>
<tr>
<td>PTCRB</td>
<td>PCS Type Certification Review Board</td>
</tr>
<tr>
<td>GCF</td>
<td>Global Certification Forum</td>
</tr>
<tr>
<td>TTCN-2</td>
<td>Tree Tabular Combined Notation</td>
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