

**Anritsu** envision : ensure

# LTE-Advanced RF Conformance Test System ME7873LA



# Pioneering Future Communications

GCF/PTCRB Approved Test Cases  
World's First and Most Test Cases



## 3GPP-Compliant LTE-Advanced Standards

# Most Approved Test Cases

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## Secure Reliability with World's First and Most Test Cases

Unlike early mobile terminals supporting voice communications between specific carriers, today's mobile technologies and communications environment support cross-border global roaming communications between all carriers based on rapid advances in Gbps broadband communications. Conformance tests are the key to verifying that performance meets the standards assuring that the communications environment functions smoothly without phone-to-carrier network connection problems.

The LTE-Advanced RF Conformance Test System ME7873LA automates RF and RRM tests for mobiles supporting the latest 3GPP standards. In addition to legacy W-CDMA, the futureproof ME7873LA supports both the latest LTE-Advanced standard and newer standards under discussion. As well as R&D test functions, FDD and TDD mobile frequency bands are supported along with freely customized system configurations for TRx, Performance and RRM tests.

### **World's First LTE 3CA GCF/LTE 5CA PTCRB Validation**

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LTE-Advanced RF Conformance Test System ME7873LA has obtained the world's first LTE 3CA PTCRB certification at September 2015. And ME7873LA has obtained more than 80% world's first LTE 3CA GCF certification at April 2016. Moreover it has obtained LTE 5CA PTCRB certification at June 2018.

### **Industry-first Test Case Validation**

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Standards-compliant terminals and test platforms are key to acquiring GCF/PTCRB certification. When requested, Anritsu provides in-house validated Test Cases before acquiring certification.

### **Supports Global Mobile Terminals**

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The ME7873LA is fully 3GPP-compliant and supports all standards-compliant frequency bands. It can test almost all mobiles used worldwide.

### **Test System with Stable Measurement**

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Auto-correction before measurement eliminates drift due to temperature changes, greatly improving measurement stability.

### **Measurement Functions for Efficient R&D**

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The easy-to-use GUI supports a search mode for Rx and performance tests, automatic extraction and retry for failed tests, SS log viewer, and simple parameter changes for efficient R&D and approval tests.



# LTE-Advanced RF Conformance Test System ME7873LA Features

## RF/RRM Conformance Test System Supporting Most and First GCF/PTCRB Approved TCs

### Supporting Most and First GCF\*1/PTCRB\*2 Approved Test Cases\*3

This GCF/PTCRB-compatible test platform targets the most and first Test Cases approved at quarterly GCF/PTCRB meetings. It uses the Signalling Tester MD8430A as a LTE base station simulator, and is configured from various test instruments and dedicated software. It supports RF/RRM tests while communicating with LTE mobile terminals.

### Supports Latest 3GPP Standards

This system is for testing the RF TRx characteristics, performance requirements, and RRM performance of FDD/TDD LTE mobile terminals in compliance with the requirements of 3GPP TS 36.521-1 Chapter 6 (Transmitter Characteristics), Chapter 7 (Receiver Characteristics), Chapter 8 (Performance Requirement), Chapter 9 (Reporting of Channel State Information), Chapter 10 (MBMS Performance) and TS 36.521-3 RRM\*4 including LTE → GSM/UMTS/CDMA2000/TD-SCDMA Inter-RAT tests. TS 34.121-1 UMTS → LTE and TS 34.122 TD-SCDMA → LTE Inter-RAT tests are also supported. Moreover, UMTS 3GPP TS 34.121-1 Rel-7/8 tests are supported.\*5 LTE-Advanced Pro, such as LAA and Cat-M/NB-IoT, Joint CA up to 5CA, 4x4 MIMO, and HPUE are supported too.

### Supports Mobile Terminal Carrier Acceptance Tests

This single, multi-purpose platform supports acceptance tests mainly for North American operators, as well as 3GPP RF/RRM conformance tests.

- \*1: GCF (Global Certification Forum):  
Certifies conformance to standards for mobile terminals and test systems. Composed mainly of operators, mobile terminal vendors and chipset vendors and performs certification for frequency bands used in Europe.
- \*2: PTCRB (PCS Type Certification Review Board):  
A similar test system certification organization to GCF composed mainly of N. American carriers and UE vendors and performing conformance certification for frequency bands used in N. America.
- \*3: As of June, 2018.
- \*4: RRM: Radio Resource Management
- \*5: In principle, defined by GCF Work Item\*6 and targeting measurement items certified by GCF/PTCRB.  
(Contact your Anritsu sales representative for timing of supported items and option configurations.)
- \*6: Work Item:  
Name of function test items selected by GCF for mobile terminal approval.

### Supports Global Mobile Terminals

Not only are GCF/PTCRB-approved Bands planned for use in Europe and North America fully supported, but the following bands defined by 3GPP are also supported too. Unlisted bands can be supported by request.

Operating Band	UL Frequencies (MHz)	DL Frequencies (MHz)
1	1920 to 1980	2110 to 2170
2	1850 to 1910	1930 to 1990
3	1710 to 1785	1805 to 1880
4	1710 to 1755	2110 to 2155
5	824 to 849	869 to 894
6	830 to 840	875 to 885
7	2500 to 2570	2620 to 2690
8	880 to 915	925 to 960
9	1749.9 to 1784.9	1844.9 to 1879.9
10	1710 to 1770	2110 to 2170
11	1427.9 to 1447.9	1475.9 to 1495.9
12	698 to 716	728 to 746
13	777 to 787	746 to 756
14	788 to 798	758 to 768
17	704 to 716	734 to 746
18	815 to 830	860 to 875
19	830 to 845	875 to 890
20	832 to 862	791 to 821
21	1447.9 to 1462.9	1495.9 to 1510.9
24	1626.5 to 1660.5	1525 to 1559
25	1850 to 1915	1930 to 1995
26	814 to 849	859 to 894
27	807 to 824	852 to 869
28	703 to 748	758 to 803
29	N/A	717 to 728
30	2305 to 2315	2350 to 2360
31	452.5 to 457.5	462.4 to 467.5
32	N/A	1452 to 1496
33	1900 to 1920	1900 to 1920
34	2010 to 2025	2010 to 2025
35	1850 to 1910	1850 to 1910
36	1930 to 1990	1930 to 1990
37	1910 to 1930	1910 to 1930
38	2570 to 2620	2570 to 2620
39	1880 to 1920	1880 to 1920
40	2300 to 2400	2300 to 2400
41	2496 to 2690	2496 to 2690
42	3400 to 3600	3400 to 3600
46	5150 to 5925	5150 to 5925
48	3550 to 3700	3550 to 3700
66	1710 to 1780	2110 to 2200
71	663 to 698	617 to 652

# LTE-Advanced RF Conformance Test System ME7873LA Features

## Focus on Improving Test Efficiency, Measurement Stability and Reliability

### Continuous Testing of Multiple Terminals

Since the standard system configuration has four RF interfaces, it can test up to four terminals continuously. Fully automated testing of multiple terminals is supported by DC power supply and serial control line auto-switching.

### Control via Networks

The PC server in the rack can be operated remotely over a network. Measurement progress can be monitored remotely and measurement sequences can be created and edited, allowing tests to be run while working elsewhere.

\*: Contact your Anritsu sales representative for details.

### Easy Control of External Devices

The system software has built-in functions for controlling the DC power supply\* and temperature chamber\* in the same way as selecting test items. Using these standard functions makes automation easy.

\*: Users must provide the DC power supply and temperature chamber. Refer to the ordering information for recommended models.

### RED-compliant Test Items (option)

This option is fully compliant with the European ETSI-defined Radio Equipment Directive (RED) RF TRx test items. Anritsu launched this European-test-house approved option ahead of market competitors. Simple operation supports easy RED-compliant tests like normal test items.

### Improve Reliability using Correction Function

System measurement stability and reliability are improved by the following three calibration and correction methods:

- Basic calibration at acceptance inspection
- Auto-calibration at work start
- Individual measurement correction

Individual measurement correction immediately before measurement eliminates temperature-related drift and greatly improves the reliability of measurements.

In addition, Anritsu engineers perform basic calibration when installing the system at acceptance inspection, eliminating the need for operators to perform this complex calibration and correction work.

### Detailed Support System

An Anritsu Support Service contract keeps the system operating at peak performance, maximizing return on investment, minimizing downtime, and keeping work on schedule.

- Latest software updates matching the latest changes to the 3GPP standards
- Information on 3GPP trends, consultation and technical support for troubleshooting test problems
- Free hardware repair and maintenance with a back-up loan unit

## Specifications

### LTE-Advanced RF Conformance Test System ME7873LA

Input and Output connector	N-type, 50Ω	
Max. Input Level	+35 dBm	
Reference Oscillator	MS2692A (with option-001/037 Rubidium Reference Oscillator) as standard External oscillator signal input available (Frequency: 10 MHz, Connector: BNC)	
Frequency Range	Frequency range defined on 3GPP E-UTRA Operating Band 1 to 14, 17 to 21, 24 to 42, 46, 66 and 71.	
Temperature Range	15°C to 35°C (operating), 0°C to 50°C (storage)*1	
Power Supply (Rating)	Select either 100 VAC to 120 VAC or 200 VAC to 240 VAC, 50 Hz/60 Hz ≤7700 VA*2 (Full system configuration)	
Dimensions	1710 (W) × 1980 (H) × 797 (D) mm*3 (Full system configuration)	
Mass	≤830 kg*4 (Full system configuration)	
CE	EMC	2014/30/EU, EN61326-1, EN61000-3-2
	LVD	2014/35/EU, EN61010-1
	RoHS	2011/65/EU, EN50581

\*1: Ambient temperature

Basic calibration at acceptance inspection must meet this requirement. Use in air-conditioned room recommended for stable measurement.

\*2: Power consumption

Sufficient power (600 VA) for basic calibration at acceptance inspection as well as for ME7873LA must be supplied.

\*3: Topples prevention

Secure using hooks at rack top recommended.

\*4: Mass/Floor Loads

The installation location must be able to safely bear the above floor loads plus 100 kg for basic calibration equipment at acceptance inspection.

## Supported Test Standards

The system design is based on the following standards:

3GPP TS 36.521-1

E-UTRA UE Conformance Specification Radio Transmission and Reception Part 1: Conformance Testing

3GPP TS 36.521-3

E-UTRA UE Conformance Specification Radio Transmission and Reception Part 3: RRM Conformance Testing

3GPP TS 34.121-1

User Equipment (UE) conformance specification; Radio transmission and reception (FDD);

Part 1: Conformance specification

Release 8, 9, 10, 11, 12 and 13 of above standards is also supported.

Contact our sales representative for detailed of the supported versions.



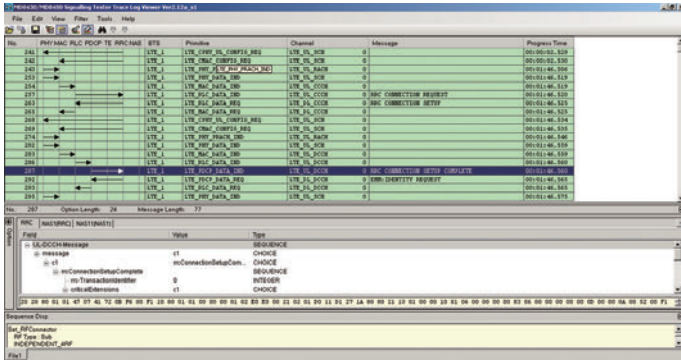


# LTE-Advanced RF Conformance Test System ME7873LA Functions

## Convenient Functions for Wide Range of Applications (continued)

### Measurement Log Analysis

Signalling Tester MD8430A measurement logs are saved automatically for detailed checking and troubleshooting with standard log viewer software.



SS Log Viewer Display

### Measured Data Management

Measurement results are confirmed at the Measurement Result screen and saved either as HTML for easy confirmation or as XML/CSV for easy database management. Moreover, HTML report files are linked to the signalling logs for each measurement, cutting search times for required information.

#### 6.6.1 Occupied bandwidth

3GPP TS36.521-1 Version 9.6.0 (2011-09)

Test case verdict: PASS

**Session information**

Test platform software: Version 2.06.00  
 Note: SysSupport

**EUT information**

EUT Hardware Information: LTE-G  
 EUT Firmware Information:  
 EUT Serial Number:  
 EUT Power Class: Power Class 3  
 EUT Release Version: Release 8  
 UE E-UTRAN Category:  
 LTE Category: Category 3  
 Antenna Port: Gemini1  
 EUT Revision ID: 642d138-6e0e-429a-a410-934ac393850a

**Test case information**

Test case: 6.6.1 Occupied bandwidth  
 Test case limitation: none  
 Test specification: 3GPP TS36.521-1  
 Test specification version: Version 9.6.0 (2011-09)  
 Test case software: 3GPP TS36.521-1 RF Conformance Test Software 2.06.04  
 Test case software version: Version 2.0.0 (2011-10)  
 Test case verdict: PASS  
 Test case session ID: f15d47b6-e1d4-460f-a87e-26bdc4210ac

**Test case result summary**

Band: LTE FDD 25  
 Vibration: none  
 Parameter: Msk(3365.8365)  
 Channel BW: 5MHz(10MHz)  
 Voltage: Normal(5.10V)  
 Temperature: Normal(25.0°C)

Verdict	Parameter	Channel BW	Voltage-Temperature Combination
PASS	Msk	5MHz	PASS
PASS	Msk	10MHz	PASS

**Test case configuration**

**Test case detail**

Band: LTE FDD 25  
 Vibration: none  
 Parameter: Msk(3365)  
 Channel BW: Normal(5MHz)  
 Voltage: 5V(5.10V)  
 Temperature: TN(25.0°C)  
 Signaling log: SS\_Log0\_0000\_2011124\_210059\_823.log

Verdict	Description	Requirement	Data	Uncer.	Est.	Comment	Duration
PASS	Channel bandwidth UL QPSK W-25B	not exceed 5.00MHz	4.453125	=-0.06	[MHz]		00:00:12

**Spectrum**

Analyzer Start Time: 0  
 Analyzer Time Length: 1.000000 sec  
 Sweep: 30 kHz  
 Dem: Average Trace Point: 2000

Start: 1.877 800 000 GHz Stop: 1.887 800 000 GHz

OBW: 4.463 125 MHz  
 OBW Lower: 1.887 278 700 GHz  
 OBW Center: 1.882 804 882 GHz  
 OBW Upper: 1.884 731 400 GHz

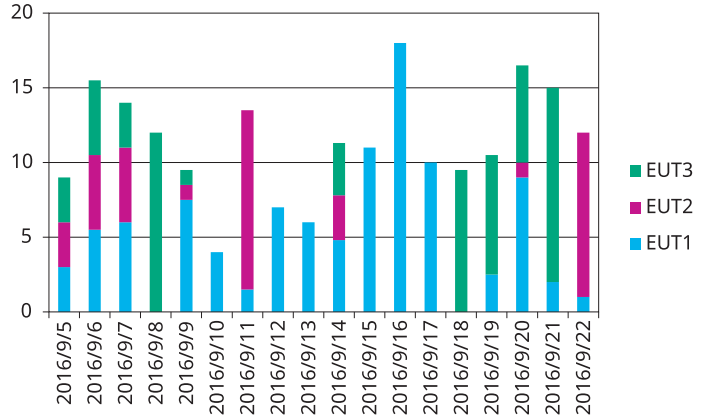
Frequency and Time: Level: 30.00 dBm Trigger: Free Run  
 Center Freq: 1.882 800 000 GHz Ref. Level: 6.87 dB  
 Freq. Span: 10 MHz Ref. Level Ch: 42 dB  
 Capture Length: 1.000 00 sec Attenuator: 42 dB

Verdict: PASS LTE FDD 25 none Msk(3365) Normal(10MHz) 5V(5.10V) TN(25.0°C)

Measurement Report (HTML)

### System Usage Analysis

To support various usage-data analyses, this system outputs data for the measured frequency band EUT, frequency band, and measurement time.



Analysis Examples of Daily System Usage Ratio by EUT

# LTE-Advanced RF Conformance Test System ME7873LA Ordering Information

Please specify the model/order number, name and quantity when ordering.

The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order No.	Name
ME7873LA	<b>Main frame</b> LTE-Advanced RF Conformance Test System
	<b>Configuration items</b>
MN7462E	RF Front End
MN7463E	Combining Unit
MN7463F	Combiner Unit
MN7446A	Filter Unit
MN7446B1	Filter Block
MN7446C	Filter Block2
MN7446D	Filter Block3
MN7446G	Filter Unit
MN7446G-001	Rack Mount Kit
MN7447A	LTE Uplink Signal Filter
MN7448A	Uplink Signal Filter
MA24218A	Universal USB Power Sensor
MS2692A	Signal Analyzer
MD8430A	Signalling Tester
MG3710A	Vector Signal Generator
MG3692C	2 GHz - 20 GHz Signal Generator
MD8475A	Signalling Tester
Z1396E	User Operation PC
Z1397E	User Operation PC
Z1392D	Server PC
	<b>Standard accessory</b> ME7873LA Operation Manual (CD-ROM): 1 set
	<b>Options</b>
ME7873LA-001	Common Kit
ME7873LA-002	Antenna Extension
ME7873LA-005	Additional Rack
ME7873LA-011	SS1 Accessory
ME7873LA-012	SS2 Accessory
ME7873LA-013	SS3 Accessory
ME7873LA-014	SS4 Accessory
ME7873LA-017	SS7 Accessory
ME7873LA-021	VSG1 Accessory
ME7873LA-022	VSG2 Accessory
ME7873LA-023	CWSG1 Accessory
ME7873LA-051	Spurious Filter
ME7873LA-052	Spurious Filter2
ME7873LA-064	SS4 Accessory (Fading)
ME7873LA-081	U46G Accessory
ME7873LA-083	U48A Accessory
MX787301LA	4Rx Capability
MX787301LA-001	3GPP 4Rx TC Capability
MX787302LA	Flexible Band Combination
MX787302LA-004	4CA Flexible Band Combination
MX787302LA-005	5CA Flexible Band Combination
MX787310LA	W-CDMA Test Software
MX787310LA-001	TRX Test Cases
MX787310LA-002	Performance Test Cases
MX787310LA-003	RRM Test Cases
MX787310LA-004	W-CDMA to GSM Test Cases
MX787310LA-005	W-CDMA Test Case for China
MX787311LA	FDD LTE Test Software
MX787311LA-001	TRX Test Cases
MX787311LA-002	Performance Test Cases
MX787311LA-003	RRM Test Cases
MX787311LA-004	LTE to W-CDMA/GSM Test Cases
MX787311LA-005	LTE to C2K Test Cases
MX787311LA-007	Sustained Data Throughput Test Cases
MX787311LA-011	TRX Test Cases for UL64QAM
MX787311LA-012	Rel-9 eMBMS Performance Test Cases
MX787311LA-021	TRX Test Cases for HPUE
MX787311LA-022	Rel-10 eCIC Performance Test Cases
MX787311LA-023	Rel-10 eCIC RRM Test Cases
MX787311LA-032	Rel-11 feCIC Performance Test Cases
MX787311LA-033	Rel-11 feCIC RRM Test Cases
MX787311LA-042	eDL-MIMO Performance Test Cases
MX787311LA-043	Rel-10 Enhancement RRM Test Cases
MX787311LA-044	Rel-10 Enhancement LTE to WCDMA Test Cases
MX787311LA-047	Rel-10 Enhancement Performance Test Cases
MX787311LA-052	Enhanced Performance Type A Test Cases
MX787311LA-062	DL CoMP Performance Test Cases
MX787311LA-063	Rel-12 Enhancement RRM Test Cases
MX787311LA-065	Rel-12 Enhancement RRM Test Cases2
MX787311LA-071	TRX Test Cases with 4Rx antenna
MX787311LA-072	Performance Test Cases with 4Rx (3-4 Layer)
MX787311LA-073	RRM Test Cases with 4Rx
MX787311LA-078	Performance Test Cases with 4Rx (1-2 Layer)
MX787311LA-079	SDR and CQI Test Cases with 4Rx (3-4 Layer)
MX787311LA-081	DL256QAM TRX Test Cases
MX787311LA-087	DL256QAM Performance Test Cases
MX787311LA-095	RF Test Case for China
MX787361LA	TD-LTE Test Software
MX787361LA-001	TRX Test Cases
MX787361LA-002	Performance Test Cases
MX787361LA-003	RRM Test Cases
MX787361LA-004	LTE to W-CDMA/GSM Test Cases
MX787361LA-005	LTE to TD-SCDMA Test Cases
MX787361LA-007	Sustained Data Throughput Test Cases
MX787361LA-011	TRX Test Cases for UL64QAM
MX787361LA-012	Rel-9 eMBMS Performance Test Cases

Model/Order No.	Name
MX787361LA-013	Rel-9 FDD/TDD Dual Mode Test Cases
MX787361LA-015	LTE to TD-SCDMA Test Cases2
MX787361LA-021	TRX Test Cases for HPUE
MX787361LA-022	Rel-10 eCIC Performance Test Cases
MX787361LA-023	Rel-10 eCIC RRM Test Cases
MX787361LA-032	Rel-11 feCIC Performance Test Cases
MX787361LA-033	Rel-11 feCIC RRM Test Cases
MX787361LA-042	eDL-MIMO Performance Test Cases
MX787361LA-043	Rel-10 Enhancement RRM Test Cases
MX787361LA-047	Rel-10 Enhancement Performance Test Cases
MX787361LA-052	Enhanced Performance Type A Test Cases
MX787361LA-063	Rel-12 Enhancement RRM Test Cases
MX787361LA-064	Rel-12 FDD/TDD Dual Mode Test Cases
MX787361LA-071	TRX Test Cases with 4Rx antenna
MX787361LA-072	Performance Test Cases with 4Rx (3-4 Layer)
MX787361LA-073	RRM Test Cases with 4Rx
MX787361LA-078	Performance Test Cases with 4Rx (1-2 Layer)
MX787361LA-079	SDR and CQI Test Cases with 4Rx (3-4 Layer)
MX787361LA-081	DL256QAM TRX Test Cases
MX787361LA-087	DL256QAM Performance Test Cases
MX787361LA-095	RF Test Case for China
MX787361LA-096	RRM Test Case for China
MX787312LA	FDD CA Test Software
MX787312LA-001	TRX Test Cases
MX787312LA-002	Performance Test Cases
MX787312LA-003	RRM Test Cases
MX787312LA-004	LTE to W-CDMA Test Cases
MX787312LA-007	Sustained Data Throughput Test Cases
MX787312LA-011	TRX Test Cases CO
MX787312LA-012	Performance Test Cases CO
MX787312LA-017	Sustained Data Throughput Test Cases CO
MX787312LA-021	TRX Test Cases CO/U
MX787312LA-031	TRX Test Cases NC
MX787312LA-032	Performance Test Cases NC
MX787312LA-033	RRM Test Cases NC
MX787312LA-034	LTE to W-CDMA Test Cases NC
MX787312LA-037	Sustained Data Throughput Test Cases NC
MX787312LA-041	TRX Test Cases CO/U for UL64QAM
MX787312LA-051	TRX Test Cases UL CA
MX787312LA-056	TRX Test Cases UL CA for UL64QAM
MX787312LA-063	Rel-12 Enhancement RRM Test Cases
MX787312LA-065	Rel-12 Enhancement RRM Test Cases2
MX787312LA-072	Performance Test Cases with 4Rx antenna
MX787312LA-081	DL256QAM TRX Test Cases
MX787312LA-087	DL256QAM Performance Test Cases
MX787362LA	TD-LTE CA Test Software
MX787362LA-001	TRX Test Cases
MX787362LA-002	Performance Test Cases
MX787362LA-003	RRM Test Cases
MX787362LA-005	LTE to TD-SCDMA Test Cases
MX787362LA-007	Sustained Data Throughput Test Cases
MX787362LA-011	TRX Test Cases CO
MX787362LA-012	Performance Test Cases CO
MX787362LA-017	Sustained Data Throughput Test Cases CO
MX787362LA-021	TRX Test Cases CO/U
MX787362LA-031	TRX Test Cases NC
MX787362LA-032	Performance Test Cases NC
MX787362LA-033	RRM Test Cases NC
MX787362LA-037	Sustained Data Throughput Test Cases NC
MX787362LA-041	TRX Test Cases CO/U for UL64QAM
MX787362LA-043	RRM Test Cases2
MX787362LA-072	Performance Test Cases with 4Rx antenna
MX787362LA-081	DL256QAM TRX Test Cases
MX787362LA-087	DL256QAM Performance Test Cases
MX787313LA	FDD 3CA Test Software
MX787313LA-001	TRX Test Cases
MX787313LA-002	Performance Test Cases
MX787313LA-003	RRM Test Cases
MX787313LA-007	Sustained Data Throughput Test Cases
MX787313LA-011	TRX Test Cases 1B
MX787313LA-012	Performance Test Cases 1B
MX787313LA-013	RRM Test Cases 1B
MX787313LA-017	Sustained Data Throughput Test Cases 1B
MX787313LA-031	TRX Test Cases 2B
MX787313LA-032	Performance Test Cases 2B
MX787313LA-033	RRM Test Cases 2B
MX787313LA-037	Sustained Data Throughput Test Cases 2B
MX787313LA-072	Performance Test Cases with 4Rx antenna
MX787313LA-081	DL256QAM TRX Test Cases
MX787313LA-087	DL256QAM Performance Test Cases
MX787363LA	TD-LTE 3CA Test Software
MX787363LA-011	TRX Test Cases 1B
MX787363LA-012	Performance Test Cases 1B
MX787363LA-013	RRM Test Cases 1B
MX787363LA-017	Sustained Data Throughput Test Cases 1B
MX787363LA-031	TRX Test Cases 2B
MX787363LA-032	Performance Test Cases 2B
MX787363LA-033	RRM Test Cases 2B
MX787363LA-037	Sustained Data Throughput Test Cases 2B
MX787363LA-072	Performance Test Cases with 4Rx antenna
MX787363LA-081	DL256QAM TRX Test Cases
MX787363LA-087	DL256QAM Performance Test Cases

# LTE-Advanced RF Conformance Test System ME7873LA Ordering Information

Model/Order No.	Name
MX787314LA	FDD 4CA Test Software
MX787314LA-001	TRX Test Cases
MX787314LA-002	Performance Test Cases
MX787314LA-003	RRM Test Cases
MX787314LA-071	TRX Test Cases with 4Rx antenna
MX787364LA	TDD 4CA Test Software
MX787364LA-001	TRX Test Cases
MX787364LA-071	TRX Test Cases with 4Rx antenna
MX787315LA	FDD 5CA Test Software
MX787315LA-001	TRX Test Cases
MX787315LA-002	Performance Test Cases
MX787315LA-003	RRM Test Cases
MX787315LA-081	DL256QAM TRX Test Cases
MX787322LA	FDD-TDD 2CA Test Software
MX787322LA-001	TRX Test Cases
MX787322LA-002	Performance Test Cases
MX787322LA-003	RRM Test Cases
MX787322LA-007	Sustained Data Throughput Test Cases
MX787322LA-011	TRX Test Cases for TDD PCell
MX787322LA-012	Performance Test Cases for TDD PCell
MX787322LA-013	RRM Test Cases for TDD PCell
MX787322LA-017	SDT Test Cases for TDD PCell
MX787322LA-051	TRX Test Cases UL CA
MX787322LA-056	TRX Test Cases UL CA for UL64QAM
MX787322LA-072	Performance Test Cases with 4Rx antenna
MX787322LA-081	DL256QAM TRX Test Cases
MX787322LA-087	DL256QAM Performance Test Cases
MX787323LA	FDD-TDD 3CA Test Software
MX787323LA-001	TRX Test Cases
MX787323LA-002	Performance Test Cases
MX787323LA-003	RRM Test Cases
MX787323LA-007	Sustained Data Throughput Test Cases
MX787323LA-031	TRX Test Cases 2B
MX787323LA-032	Performance Test Cases 2B
MX787323LA-033	RRM Test Cases 2B
MX787323LA-037	Sustained Data Throughput Test Cases 2B
MX787323LA-071	TRX Test Cases with 4Rx antenna
MX787323LA-072	Performance Test Cases with 4Rx antenna
MX787323LA-079	Performance Test Cases with 4Rx antenna
MX787323LA-081	DL256QAM TRX Test Cases
MX787323LA-085	DL256QAM TRX Test Cases with 4Rx antenna
MX787323LA-087	DL256QAM Performance Test Cases
MX787324LA	FDD-TDD 4CA Test Software
MX787324LA-001	TRX Test Cases
MX787324LA-002	Performance Test Cases
MX787324LA-003	RRM Test Cases
MX787324LA-071	TRX Test Cases with 4Rx antenna
MX787325LA	FDD-TDD 5CA Test Software
MX787325LA-001	TRX Test Cases
MX787325LA-002	Performance Test Cases
MX787325LA-003	RRM Test Cases
MX787325LA-071	TRX Test Cases with 4Rx antenna
MX787325LA-072	Performance Test Cases with 4Rx antenna
MX787325LA-073	RRM Test Cases with 4Rx antenna
MX787325LA-081	DL256QAM TRX Test Cases
MX787330LA	LAA Test Software
MX787330LA-001	LAA RX Test Cases
MX787330LA-002	LAA Performance Test Cases
MX787330LA-003	LAA RRM Test Cases
MX787330LA-071	LAA RX Test Cases with 4Rx antenna
MX787332LA	LAA 2CA Test Software
MX787332LA-011	LAA RX Test Cases with TDD Cell
MX787371LA	HD-FDD CAT-M1 Test Software
MX787371LA-001	TRx Test Cases
MX787371LA-002	Performance Test Cases
MX787371LA-003	RRM Test Cases
MX787376LA	HD-FDD NB-IoT Test Software
MX787376LA-001	TRX Test Cases
MX787376LA-002	Performance Test Cases
MX787376LA-003	RRM Test Cases
MX787340LA	Supplementary Test Software for VzW
MX787340LA-001	Band4 Supplementary TRx Test Cases
MX787340LA-002	Band4 Supplementary Performance Test Cases
MX787340LA-003	Band2 Supplementary TRx Test Cases
MX787340LA-004	Band2 Supplementary Performance Test Cases
MX787340LA-005	Band13 Supplementary RF Test Cases
MX787340LA-006	Band13 Supplementary RRM Test Cases
MX787340LA-009	InterBand RRM Test Cases
MX787340LA-011	Band5 Supplementary TRx Test Cases
MX787340LA-012	Band13 Supplementary RRM feICIC Test Cases
MX787340LA-013	InterBand RRM feICIC Test Cases
MX787340LA-014	Band66 Supplementary TRx Test Cases
MX787340LA-015	Band66 Supplementary Performance Test Cases
MX787340LA-016	Band5 InterBand RRM Test Cases1
MX787340LA-017	Band66 InterBand RRM Test Cases1
MX787340LA-018	DL256QAM Supplementary RF Test Cases
MX787340LA-020	InterBand RRM Test Cases2
MX787340LA-021	Band5 InterBand RRM Test Cases2
MX787340LA-023	InterBand RRM Test Cases3

Model/Order No.	Name
MX787341LA	Supplementary Test Software for AT&T
MX787341LA-001	R1 Supplementary RF Test Cases
MX787341LA-002	R1 Supplementary Performance Test Cases
MX787341LA-003	R61 RRM Test Cases1
MX787341LA-004	R64 CA TRX Test Cases1
MX787341LA-005	R61 CA RRM Test Cases1
MX787341LA-006	R64 3CA RF Test Cases1
MX787341LA-007	R61 3CA RRM Test Cases1
MX787341LA-008	R64 3CA RF Test Cases2
MX787341LA-009	R61 RRM Test Cases2
MX787341LA-010	R61 CA RRM Test Cases2
MX787341LA-011	R61 3CA RRM Test Cases2
MX787341LA-013	R64 4CA RF Test Cases
MX787341LA-014	R1 RF Test Cases with 4Rx
MX787341LA-015	R61 RRM Test Cases3
MX787341LA-016	R61 CA RRM Test Cases3
MX787341LA-017	R61 3CA RRM Test Cases3
MX787341LA-018	R1 Supplementary RF Test Cases2
MX787343LA	Supplementary Test Software for T-Mobile
MX787343LA-001	RF Supplementary Test Cases1
MX787343LA-002	RF CA Supplementary Test Cases1
MX787343LA-003	RF Supplementary Test Cases2
MX787343LA-004	RF Supplementary Test Cases3
MX787343LA-005	RF Supplementary Test Cases4
MX787350LA	R&TTE Test Software
MX787350LA-002	LTE Test Cases
MX787350LA-003	LTE TDD Test Cases
MX787350LA-004	LTE 2CA Test Cases
MX787350LA-005	LTE TDD 2CA Test Cases
MX787350LA-006	LTE Multi-Cluster Test Cases
MX787350LA-007	LTE TDD Multi-Cluster Test Cases
MX787351LA	TRCC Test Software
MX787351LA-001	W-CDMA Test Cases
MX787300LA	Platform Functionality
MX787300LA-001	Band 1 Capability
MX787300LA-002	Band 2 Capability
MX787300LA-003	Band 3 Capability
MX787300LA-004	Band 4 Capability
MX787300LA-005	Band 5 Capability
MX787300LA-006	Band 6 Capability
MX787300LA-007	Band 7 Capability
MX787300LA-008	Band 8 Capability
MX787300LA-009	Band 9 Capability
MX787300LA-010	Band 10 Capability
MX787300LA-011	Band 11 Capability
MX787300LA-012	Band 12 Capability
MX787300LA-013	Band 13 Capability
MX787300LA-014	Band 14 Capability
MX787300LA-017	Band 17 Capability
MX787300LA-018	Band 18 Capability
MX787300LA-019	Band 19 Capability
MX787300LA-020	Band 20 Capability
MX787300LA-021	Band 21 Capability
MX787300LA-024	Band 24 Capability
MX787300LA-025	Band 25 Capability
MX787300LA-026	Band 26 Capability
MX787300LA-027	Band 27 Capability
MX787300LA-028	Band 28 Capability
MX787300LA-029	Band 29 Capability
MX787300LA-030	Band 30 Capability
MX787300LA-031	Band 31 Capability
MX787300LA-032	Band 32 Capability
MX787300LA-033	Band 33 Capability
MX787300LA-034	Band 34 Capability
MX787300LA-035	Band 35 Capability
MX787300LA-036	Band 36 Capability
MX787300LA-037	Band 37 Capability
MX787300LA-038	Band 38 Capability
MX787300LA-039	Band 39 Capability
MX787300LA-040	Band 40 Capability
MX787300LA-041	Band 41 Capability
MX787300LA-042	Band 42 Capability
MX787300LA-046	Band 46 Capability
MX787300LA-048	Band 48 Capability
MX787300LA-066	Band 66 Capability
MX787300LA-071	Band 71 Capability

MD8475A with CDMA2000 option is not RoHS compliant.  
Contact your Anritsu sales representative for details.

In addition to the above-described accessories, the following items are required to use the ME7873LA.

### DC Power Supply

One of the following models is required when controlling the power supply using the ME7873LA.

Model	Name	pcs	Manufacturer
N6700C	Main frame	1	Keysight Technologies Inc.
N6732B	8 V, 6.25 A, 50 W DC Power Module*1	4	
N6709C	Low-Profile MPS Mainframe Rack Mount Kit	1	
2306-PJ	Dual-Channel Battery/Charger Simulator with 500 mA Range	2*2	Keithley Instruments Inc.

\*1: Up to four modules are required according to connected mobiles. Filler Panel Kit N6708A is required if the number of DC power modules are less than four. At rack mounting, the maximum current is 2 A. To draw more than 2 A of current, use a separate cable to supply DC to the terminal. However, since this will prevent rack mounting, decide on the installation location for the DC power supply in advance. When using other DC power module, ask the power supply manufacturer for details.

\*2: Two sets of the 2306-PJ are required when testing up to four mobiles continuously.

### Temperature Chamber

One of the following equipments is required to control the temperature chamber from the ME7873LA.

Model	Name	Manufacturer
SH-241*1	Temperature & Humidity Chamber	ESPEC Corp.
SH-242*1		
VT4002*2	EMC Shielding with Temperature	Votsch Industrietechnik GmbH
105*1	Benchtop Temperature Chamber	TestEquity LLC
107*1		
115*1		

\*1: GPIB Cable (Double-Shield, 2 m) is required to control this chamber automatically.

\*2: USB-RS232C Converter Cable (2 m) is required to control this chamber automatically.

Contact your Anritsu sales representative for details.



Specifications are subject to change without notice.

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