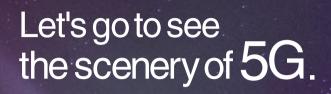


New Radio RF Conformance Test System ME7873NR









GCF/PTCRB Approved Conformance Test Platform

Proven System that Supported 3G and 4G era.

3G, 4G, and... now 5G

The globalized mobile 3G and 4G market depends increasingly on conformance tests to assure reliable interoperability.

With its support for both W-CDMA and LTE mobiles, the ME7873F/L/LA series is a trusted conformance test system offering reliable results to many Anritsu customers worldwide.

The world-beating early release of the New Radio RF Conformance Test System ME7873NR inherits the same design concept as its predecessor ME7873 series while extending support to 5G RF/RRM tests.

The ME7873NR are based on the latest 3GPP communications standards and supporting both the FR1 and the FR2 bands. Moreover, it has many built-in functions for R&D testing.

3G





4G



ME7873LA

5G

New Radio RF Conformance Test System

ME7873NR

Easy-to-use

The intuitive easy-to-use GUI supports simple creation and editing of test sequences, system environment settings, and changes to parameters for mobile-device settings and test cases.

settings, and tenanges to parameters for mobile device settings and test cases.

Moreover, automatic extraction of Fail test items, and Retry and Log display functions, etc., not only support compliance testing but also help increase R&D efficiency.

Stability and Reliability

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Both basic correction at installation and automatic correction at measurement execution are supported. Stable and reliable measurements with high reproducibility are obtained by eliminating temperature-change-related measurement system variability.

Expandability

Hardware can be configured flexibly to match executed test cases and can easily be upgraded to higher-order CA/MIMO specifications.





New Radio RF Conformance Test System ME7873NR Features

Pioneered 5G NR RF/RRM Conformance Test System

Pioneering for GCF*1/PTCRB*2 5G Validation

The New Radio RF Conformance Test System ME7873NR test platform is GCF/PTCRB certified. After its market-leading*3 release in November 2018, it became the first system to start GCF certification for 5G tests in January 2019 and subsequently started PTCRB certification tests in February. Since then, the number of supported test cases has been increasing at each quarterly GCF/PTC RB meeting.

The ME7873NR executes 5G NR Standalone and Non-Standalone mode RF/RRM tests with various types of measuring equipment and dedicated test software when used with the Radio Communication Test Station MT8000A simulating a 5G NR base station and the Signalling Tester MD8430A simulating an LTE base station.

- *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: According to our research result on the news releases of each company.

Supports Latest 3GPP Standards

It supports execution of 3GPP-compliant 5G mobile RF TRx and RRM performance tests in accordance with the latest 3GPP standards updated every 3 months. Tested items cover Transmitter and Receiver Characteristics (3GPP TS 38.521–1 Chapter 6 and Chapter 7, respectively) as well as Transmitter and Receiver Characteristics (3GPP TS 38.521–3 Chapter 6 and Chapter 7, respectively). Future supported measurement items will cover Demodulation performance and CSI reporting requirements (3GPP TS 38.521–4 Chapter 5 and 6, respectively) as well as EN-DC with PSCell in FR1 and NR standalone in FR1 (3GPP TS 38.533 Chapter 4 and Chapter 6, respectively).

Easy Upgrade from ME7873LA

A cost-effective easy upgrade to the ME7873NR from the LTE-Advanced RF Conformance Test System ME7873LA*4 is readily available by adding the minimum required hardware. Upgrading to the ME7873NR not only adds 5G NR test items but also keeps support for the ME7873LA test items too.

*4: LTE-Advanced RF Conformance Test System ME7873LA:
Platform supporting tests of 3GPP LTE/LTE-Advanced terminal RF TRx
characteristics with certified compliance with 3GPP standards, such as
performance. Supports acceptance tests by N. American operators in addition
to LTE-Advanced Pro test items, such as LAA and CAT-M/NB-IoT.

Supports Global Mobile Terminals

In addition to supporting GCF/PTCRB-certified bands (5G NR bands and LTE bands in 5G NSA mode) now being deployed or expected to be deployed in North America, Europe, and Asia, 3GPP-defined FR1 and FR2 bands are also widely supported. Currently supported bands are shown below. Currently unsupported bands are expected to be supported one-by-one according to market demand.

Please consult our business section for more details.

[NR Band]

Operating Band	UL Frequencies (MHz)	DL Frequencies (MHz)
FR1		
n41	2496 to 2690	2496 to 2690
n71	663 to 698	617 to 652
n77	3300 to 4200	3300 to 4200
n78	3300 to 3800	3300 to 3800
n79	4400 to 5000	4400 to 5000
FR2		
n257	26500 to 29500	26500 to 29500
n258	24250 to 27500	24250 to 27500
n260	37000 to 40000	37000 to 40000
n261	27500 to 28350	27500 to 28350

[LTE Band]

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
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
30	2305 to 2315	2350 to 2360
31	452.5 to 457.5	462.4 to 467.5
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
66	1710 to 1780	2110 to 2200
71	663 to 698	617 to 652

New Radio RF Conformance Test System ME7873NR Features

Focus on Improving Test Efficiency, Measurement Stability and Reliability

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.

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

New Radio RF Conformance Test System ME7873NR FR1 Configuration

Input and Output connector N-type, 50Ω		N-type, 50Ω	
Max. Input	Level	+35 dBm	
Reference Oscillator		MS2692A as standard External oscillator signal input available (Frequency: 10 MHz, Connector: BNC)	
Frequency Range		450 MHz to 6 GHz	
Temperature Range		15°C to 35°C (operating), 0°C to 50°C (storage)*1	
Power Supply (Rating)		Select either 100 V(ac) to 120 V(ac) or 200 V(ac) to 240 V(ac), 50 Hz/60 Hz ≤7950 VA*² (Full system configuration)	
Dimensions		2 racks configuration 1140 (W) × 1980 (H) × 797 (D) mm* ³ 3 racks configuration 1710 (W) × 1980 (H) × 797 (D) mm* ³ (Full system configuration)	
Mass		≤830 kg*4 (Full system configuration)	
	EMC	2014/30/EU, EN61326-1, EN61000-3-2	
CE	LVD	2014/35/EU, EN61010-1	
	RoHS	2011/65/EU, EN50581	

FR2 Configuration

Reference Oscillator		MS2850A as standard External oscillator signal input available (Frequency: 10 MHz, Connector: BNC)	
Frequency Range		450 MHz to 6 GHz (LTE Anchor) 24.25 GHz to 29.5 GHz, 37 GHz to 43.5 GHz	
Temperature Range		15°C to 30°C (operating), 0°C to 50°C (storage)*1	
Power Sup (Rating)	ply	Select either 100 V(ac) to 120 V(ac) or 200 V(ac) to 240 V(ac), 50 Hz/60 Hz ≤8000 VA*² (Full system configuration)	
System rack part		2200 (W) × 1980 (H) × 1200 (D) mm	
Mass		≤1600 kg*4 (Total of system rack part and OTA Chamber part)	
EMC 2014/30/EU, EN61326-1, EN61000-3-2		2014/30/EU, EN61326-1, EN61000-3-2	
CE	LVD	2014/35/EU, EN61010-1	
RoHS		2011/65/EU, EN50581	

Key specifications are listed. Contact your sales representative for details.

*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 ME7873NR must be supplied.

*3: Topple 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

NR User Equipment (UE) conformance specification Radio transmission and reception Part 1: Range 1 Standalone

3GPP TS 36.521-3

NR User Equipment (UE) conformance specification Radio transmission and reception Part 3: Range 1 and Range 2 Interworking operation with other radios

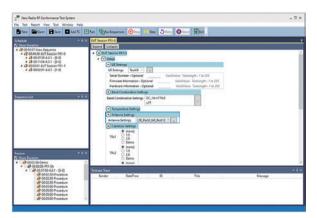
Contact your sales representative for detailed of the supported test standards and versions.

New Radio RF Conformance Test System ME7873NR Functions

Convenient Functions for Wide Range of Applications

Easy-to-use Main Screen for Key Operations

The screen toolbar icons for key operations are easy to understand. Operations are performed using the Toolbar at the top of the Main window using easy-to-understand icons. In addition, test sequence items and execution status are displayed at the left side of the Main window.

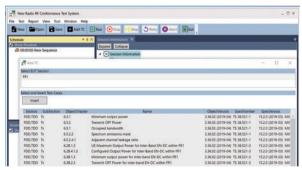


Main Window

Easy Sequence Creation and Editing

The creation and editing procedure is as easy as selecting the test case to measure from the task pane (below) and clicking [Insert] to create the sequence. Select the created test case and double click [Schedule] at the screen bottom left to display detailed parameters.

The measurement frequency and channel bandwidth can be changed here too.



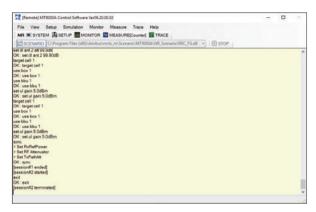
Sequence Creation Screen



Parameter Changing Screen

Check Measurement Progress

The current measurement progress is easily confirmed because the Radio Communication Test Station MT8000A displays real-time logs during measurement. In addition, failed results are easily seen from the message exchanges between the tester and mobile sides, supporting easy problem troubleshooting.



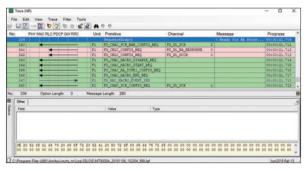
Real-time Trace Log Display

New Radio RF Conformance Test System ME7873NR Functions

Convenient Functions for Wide Range of Applications (continued)

Measurement Log Analysis

MT8000A measurement logs are saved automatically for detailed checking and troubleshooting with standard log viewer software.

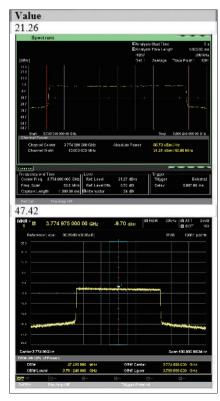


Trace Log Viewer Display

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.





New Radio RF Conformance Test System ME7873NR 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	
	Main Frame	
ME7873NR	New Radio RF Conformance Test System	
	Configuration Items (FR1)	
MT8000A	Radio Communication Test Station	
MD8430A	Signalling Tester	
MS2692A	Signal Analyzer	
MG3692C	2 GHz - 20 GHz Signal Generator	
MG3710E	Vector Signal Generator	
MA24218A	Universal USB Power Sensor	
MN7446A	Filter Unit	
MN7446B1	Filter Block	
MN7446E	Filter Block4	
MN7446F	Filter Block5	
MN7446F-001	Additional Filter Block1	
MN7447A	LTE Uplink Signal Filter	
MN7447B	UL Amplifier	
MN7462E	RF Front End	
MN7463E	Combining Unit	
MN7463F	Combiner Unit	
Z2014A	System control PC (EN)	
Z2015A	System control PC (JP)	
	Configuration Items (FR2)	
MT8000A	Radio Communication Test Station	
MT8821C	Radio Communication Analyzer	
MS2850A	Signal Analyzer	
MG3697C	Signal Generator	
MA8172A	CATR Anechoic Chamber	
MN74000A	Spurious Measurement Unit	
MN74000B	Spurious Measurement Unit	
MA80003A	Multiband RF Converter	
Z2014A	System control PC (EN)	
Z2015A	System control PC (JP)	
	Standard Accessory	
	ME7873NR Operation Manual (CD-ROM):	1 set
	Options	
ME7873NR-001	FR1 Common kit	
ME7873NR-002	Antenna Extension	
ME7873NR-003	Common Rack (41U) for FR1 System	
ME7873NR-006	Additional Rack (41U) for FR1 System	
ME7873NR-009	FR2 Common kit	
ME7873NR-011	SS1 Accessory	
ME7873NR-021	VSG1 Accessory	
ME7873NR-022	VSG2 Accessory	
ME7873NR-023	CWSG1 Accessory	
ME7873NR-031	SS11 Accessory	
ME7873NR-041	SS21 Accessory	
ME7873NR-043	SS25 Accessory	
ME7873NR-045	SMU Accessory	
ME7873NR-071	SPA Accessory	
ME7873NR-072	MWSG Accessory	
ME7873NR-074	Converter cable Kit	
ME7873NR-UG301	Combining kit with ME7873LA	
MN74000B-UG101	Hardware Upgrade from MN74000A	
MN74000B-UG201	Hardware Upgrade from MN74000A	

MX787300NR	Model/Order No.	Name
MX787300NR MX787300NR-041 MX787300NR-077 MX787300NR-078 MX787300NR-079 Band n77 Capability MX787300NR-257 MX787300NR-258 MX787300NR-260 MX787300NR-261 MX787301NR MX787301NR-001 MX787301NR-002 MX787301NR-002 MX787301NR-004 MX787301NR-005 MX787301NR-005 MX787301NR-007 MX787301NR-007 MX787301NR-008 MX787301NR-009 MX787301NR-011 MX787301NR-012 MX787301NR-012 MX787301NR-012 MX787301NR-014 MX787301NR-015 MX787301NR-015 MX787301NR-016 MX787301NR-017 MX787301NR-017 MX787301NR-018 MX787301NR-019 MX787301NR-019 MX787301NR-019 MX787301NR-019 MX787301NR-019 MX787301NR-019 MX787301NR-019 MX787301NR-019 MX787301NR-020 MX787301NR-020 MX787301NR-021 MX787301NR-020 MX787301NR-021 MX787301NR-020 MX787301NR-021 MX787301NR-020 MX787301NR-021 MX787301NR-020 MX787301NR-024 MX787301NR-025 MX787301NR-025 MX787301NR-026 MX787301NR-026 MX787301NR-026 MX787301NR-031 MX787301NR-032 MX787301NR-032 MX787301NR-034 MX787301NR-035 MX787301NR-036 MX787301NR-036 MX787301NR-037 MX787301NR-037 MX787301NR-038 MX787301NR-038 MX787301NR-039 MX787301NR-030 MX787301NR-031 MX787301NR-036 MX787301NR-037 MX787301NR-036 MX787301NR-037 MX787301NR-037 MX787301NR-038 MX787301NR-038 MX787301NR-039 MX787301NR-039 MX787301NR-030 MX787301NR-031 MX787301NR-032 MX787301NR-033 MX787301NR-034 MX787301NR-035 MX787301NR-036 MX787301NR-037 MX787301NR-037 MX787301NR-038 MX787301NR-039 MX787301NR-039 MX787301NR-036 MX787301NR-037 MX787301NR-037 MX787301NR-038 MX787301NR-039 MX787301NR-039 MX787301NR-039 MX787301NR-030 MX787301NR-031 MX787301NR-031 MX787301NR-032 MX787301NR-033 MX787301NR-034 MX787301NR-036 MX787301NR-037 MX787301NR-037 MX787301NR-038 MX787301NR-039 MX787301NR-030 MX787301NR-031 MX787301NR-036 MX787301NR-037 MX787301NR-037 MX787301NR-038 MX787301NR-039 MX787301NR-030 MX787301NR-030 MX787301NR-031 MX787301NR-031 MX787301NR-032 MX787301NR-034 MX787301NR-036 MX787301NR-037 MX787301NR-036 MX787301NR-037 MX787301NR-030 MX787301NR-030 MX787301NR-031 MX787301NR-031 MX787301NR-031 MX787301NR-031 MX787301NR-031 MX787301NR-031 MX787301NR-031 MX787301NR-031 MX787301N	modely order ivo.	
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MX787301NR-042 LTE Band 42 Capability	MX787301NR-042	LTE Band 42 Capability
MX787301NR-066 LTE Band 66 Capability	MX787301NR-066	
MX787301NR-071 LTE Band 71 Capability	MX787301NR-071	LTE Band 71 Capability
MX787361NR TDD NR NSA FR1 Test Software	MX787361NR	TDD NR NSA FR1 Test Software
MX787361NR-001 TRX Test Cases	MX787361NR-001	TRX Test Cases
MX787371NR TDD NR NSA FR2 Test Software	MX787371NR	TDD NR NSA FR2 Test Software
MX787371NR-004 TRX Test Cases Package1		
MX787371NR-005 TRX Test Cases Package2		3
MX787371NR-060 Supplementary TRx Test Cases for Verizon	MX787371NR-060	Supplementary TRx Test Cases for Verizon
MX787371NR-070 Supplementary TRx Test Cases for AT&T	MX787371NR-070	Supplementary TRx Test Cases for AT&T
MX787371NR-080 Supplementary TRx Test Cases for T-Mobile	MX787371NR-080	
MX787372NR TDD NR NSA FR2 UL CA Test Software	MX787372NR	TDD NR NSA FR2 UL CA Test Software
MX787372NR-004 TRX Test Cases for UL CA Package1		
MX787372NR-005 TRX Test Cases for UL CA Package2		
MX787381NR TDD NR SA FR1 Test Software		
MX787381NR-001 TRX Test Cases		
Contact your Anritsu sales representative for detailed ordering information.		

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New Radio RF Conformance Test System ME7873NR Ordering Information

In addition to the above-described accessories, the following items are required to use the ME7873NR.

DC Power Supply

One of the following models is required when controlling the power supply using the ME7873NR.

Model	Name	pcs	Manufacturer
N6700C	Main frame	1	
N6732B	8 V, 6.25 A, 50 W DC Power Module*1	4	Keysight Technologies
N6709C	Low-Profile MPS Mainframe Rack Mount Kit	1	THE.
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

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

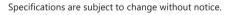
Temperature Chamber

One of the following equipments is required to control the temperature chamber from the ME7873NR.

Model	Name	Manufacturer	
SH-241*3	Temperature & Humidity	ESPEC Corp.	
SH-242*3	Chamber		
105*3	Dan ahtan Taranayatuwa Chambar		
107*3	Benchtop Temperature Chamber	TestEquity LLC	
115*3	Temperature Chamber		

^{*3:} GPIB Cable (Double-Shield, 2 m) is required to control this chamber automatically.

Contact your Anritsu sales representative for details.



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