

Anritsu envision : ensure

5G NR Mobile Device Test Platform

ME7834NR





Trusted Performance Based on Long-term Market Presence and Reputation

Anritsu has delivered high quality Conformance Test solutions that exceed customer expectations since the beginning of 3G and that tradition continues today with 5G Anritsu test solutions deliver state-of-the-art technology to our customers for conformance and carrier acceptance testing based on our industry leading experience.

Market Leading 3GPP Compliant Test Cases

Anritsu delivers first to market test cases compliant to the latest 3GPP specifications.

Market Leading 5G Carrier Acceptance Test

Anritsu delivers state of the art Carrier Acceptance test cases supporting all major carriers to test the latest LTE and NR features for carrier compliance.

5G, 4G and 3G Conformance and Carrier Acceptance Testing



5G NR Mobile Device Test Platform ME7834NR Features

Key Features

5G NR Mobile Device Test Platform ME7834NR supports both protocol conformance test (PCT) and carrier acceptance test (CAT) for UE manufacturers and test houses. ME7834NR covers not only 5G but also LTE/LTE-Advanced and UMTS. It can flexibly configure PCT and CAT environment by combining components of Hardware, Software and Test Package.

All-in-One 5G NR Support for Protocol Conformance Tests and Carrier Acceptance Test

The ME7834NR is the test platform for 3GPP based Protocol Conformance Tests (PCT) and Carrier Acceptance Testing (CAT) of mobile devices incorporating Multiple Radio Access Technologies (RAT). The ME7834NR supports 5G New Radio (NR) Technology in both Standalone and Non-Standalone mode, in addition to LTE, LTE-Advanced (LTE-A), LTE-A Pro, and W-CDMA.

Supports 3GPP defined bands from Sub-6GHz to mm-Wave

The 5G NR Mobile Device Test Platform ME7834NR covers the 5G frequency bands defined by 3GPP including sub-6 GHz and millimeter Wave when combined with Anritsu's new OTA chamber MA8171A and RF converter.

Upgrade your current ME7834 system for 5G

The 5G NR Mobile Device Test Platform ME7834NR provides a smooth transition to 5G whilst continuing to support LTE, LTE-Advanced (LTE-A), LTE-A Pro and legacy W-CDMA technologies. This enables existing customers to upgrade to 5G whilst capitalizing on a well proven LTE-A test environment and stay abreast of the latest technology evolution.

Detailed Support System

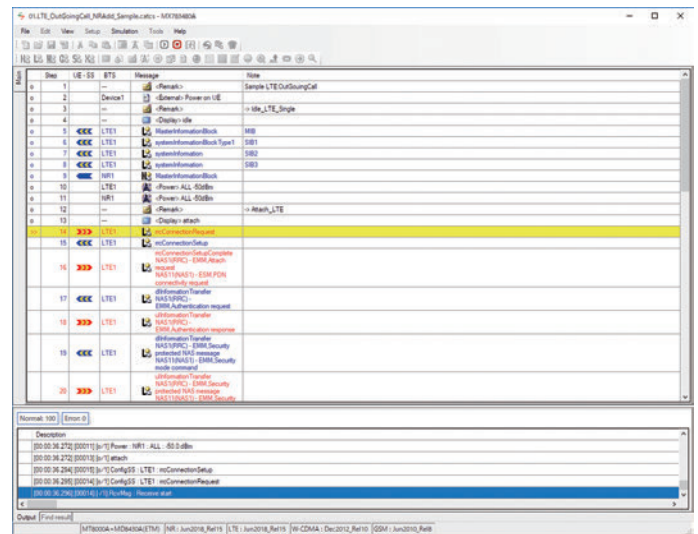
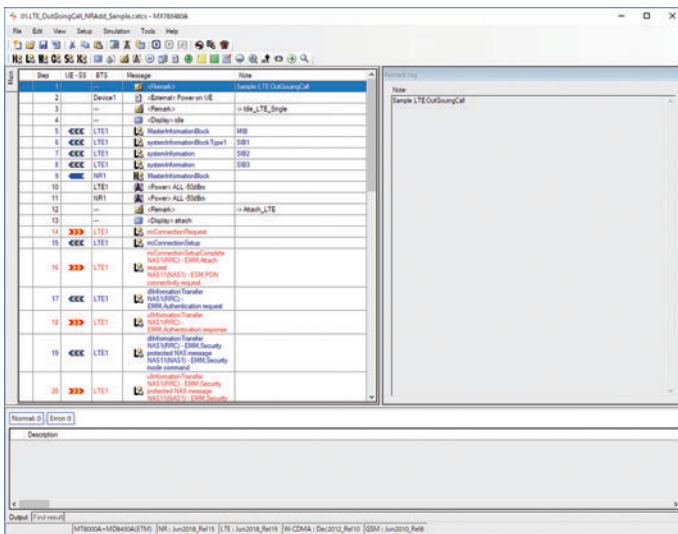
To assure more efficient use of this system, we offer installation and post-technical support services (fees apply to both), which help assure a smooth and trouble-free customer workflow.

Software

The 5G NR Mobile Device Test Platform ME7834NR follows the conventional 4G Test Platform GUI. It is not necessary to train newly using measuring software since you can perform Protocol test of 5G terminal with the operation as before.

Easy Sequence Creation and Editing

In the Carrier Acceptance Test (CAT), Adopted a GUI based on MSC (Message Sequence Chart) used in protocol test specification, so you can easily perform the test by reading it. You do not need detailed knowledge of programming for scenario creation when doing a signaling test.



Test Example

5G NR Mobile Device Test Platform ME7834NR Layout

System Configuration



* Example of maximum configuration for 5G NR NSA mmWave testing

- 1 Radio Communication Test Station MT8000A**
All-in-one test platform that can perform 5G NR protocol testing.
- 2 Signalling Tester MD8430A**
LTE/LTE-Advanced, W-CDMA compatible base station simulator for non-Standalone (NSA) mode testing.
- 3 RF Combiner Unit MN8142B**
Connect the UE and transmit the RF signal to each instrument in the Test platform.
- 4 RF Converter**
Convert mm-wave signal between MT8000A and RF Chamber.
- 5 RF Chamber MA8171A**
Used for Over The Air (OTA) test.
- 6 Position Controller MA8174A**
Control Positioner MA8175A in RF Chamber MA8171A.

5G NR Mobile Device Test Platform ME7834NR Specifications

5G NR Mobile Device Test Platform ME7834NR

Electrical Characteristics	<p>Downlink output accuracy ±3 dB (after system calibration implemented at MN8142B antenna port)</p> <p>Downlink frequency range 450 MHz to 6000 MHz (MD8430A signals. Option required from 3000 MHz to 6000 MHz) 500 MHz to 2650 MHz (MD8475A signals) 450 MHz to 6000 MHz (MT8000A signals)</p> <p>Uplink measurement accuracy ±3 dB (after system calibration implemented at MN8142B antenna port)</p> <p>Uplink frequency range 450 MHz to 6000 MHz (MD8430A signals. Option required from 3000 MHz to 6000 MHz) 500 MHz to 2530 MHz (MD8475A signals) 450 MHz to 6000 MHz (MT8000A signals)</p>
General	<p>Power Supply Power voltage: 100 V(ac) to 120 V(ac)/200 V(ac) to 240 V(ac) (-15/+10%, Except 250 V max.) Frequency: 50 Hz/60 Hz Power consumption: ≤8500 VA (maximum configuration)</p> <p>Dimensions 570 (W) × 1980 (H) × 797 (D) mm (1 rack, excluding projection) 1140 (W) × 1980 (H) × 797 (D) mm (2 racks, excluding projection)</p> <p>Mass ≤650 kg (maximum configuration)</p>
Environmental Conditions	<p>Temperature range +15°C to +35°C (operating, without rack) +15°C to +30°C (operating, with rack, space of 30 cm on the back and 30 cm on the side is necessary) 0°C to +50°C (storage)</p> <p>EMC: EN61326-1, EN61000-3-2, KN61000-6-1 LVD: EN61010-1 RoHS: EN50581</p>

RF Combiner Unit MN8142B

Electrical Characteristics	<p>Frequency range 450 MHz to 6 GHz</p> <p>Maximum input level TRX1, RX1, TRX2, RX2: +33 dBm</p>
General	<p>Dimensions: 426 (W) × 264 (H) × 570 (D) mm (Excluding projection)</p> <p>Mass: ≤30 kg</p> <p>Power Supply Power voltage: 100 V(ac) to 120 V(ac)/200 V(ac) to 240 V(ac) (-15/+10%, Except 250 V max.) Frequency: 50 Hz/60 Hz (±5%) Power consumption: ≤150 VA</p> <p>Temperature range Operating temperature and humidity range: +15°C to +45°C, ≤95% (without condensation) Storage temperature range: -20°C to +60°C</p> <p>CE EMC: EN61326-1, EN61000-3-2 LVD: EN61010-1 RoHS: EN50581</p>

Key specifications are listed only. Contact your Anritsu sales representative for detailed.

See "OTA Product Catalog" for detailed information of RF Chamber MA8171A, Position Controller MA8174A, and Positioner MA8175A. Contact your Anritsu sales representative for further information.

Supported Test Standards

The system design is based on the following standards:

Protocol Conformance Test (PCT)

- 3GPP TS38.523-1 (5G NR)
- 3GPP TS36.523-1 (LTE)
- 3GPP TS34.123-1 (UMTS)

Carrier Acceptance Test (CAT)

Complies with the standards of the world's major carriers.

Contact your Anritsu sales representative for supported test cases and carriers.

5G NR Mobile Device Test Platform ME7834NR Ordering Information

Only key components are listed. 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
ME7834NR	Main Frame 5G NR Mobile Device Test Platform
	Accessories
ME7834NR-AK000	Accessory Kit for ME7834NR
ME7834NR-AK001	Accessory Kit for ME7834NR-001
ME7834NR-AK003	Accessory Kit for ME7834NR-003 (OTA Chamber1)
ME7834LA-AK010	Accessory Kit for ME7834NR-010
ME7834LA-AK011	Accessory Kit for ME7834NR-011
ME7834LA-AK020	Accessory Kit for ME7834NR-020
ME7834LA-AK021	Accessory Kit for ME7834NR-021
ME7834LA-AK027	Accessory Kit for ME7834NR-027
ME7834LA-AK100	Accessory Kit for ME7834LA-to-NR
ME7834LA-AK103	Accessory Kit for ME7834NR-003 (LTE/FR1 OTA)
ME7834LA-AK203	Accessory Kit for ME7834NR-003 (LTE/FR1 Conducted)
	Configuration Items
MT8000A	Radio Communication Test Station
MT8000A-001	Control Module
MT8000A-009	Multi-box Data Connection
MT8000A-011	Baseband Module
MT8000A-012	Data Test Module
MT8000A-020	RF Base Module
MT8000A-022	3GHz-12GHz RF Sub Module
MN8142B	RF Combiner Unit
MN8142B-001	Sync Switch
	Configuration Items for NSA
MD8430A	Signalling Tester
MD8430A-002	Extended Frequency Range to 3.8GHz
MD8430A-005	Extended Frequency Range to 3.8GHz Hardware2
MD8430A-035	LTE Enhanced Test Model (ETM)
MD8430A-060	LTE FDD Option
MD8430A-061	LTE TDD Option
MD8430A-064	LTE Anchor Option
MD8430A-075	LTE DL 4x4 MIMO Option
MD8430A-081	LTE RoHC Option
MD8430A-086	Ciphering Option
MD8430A-087	LTE CoMP Option
	Converter
MA80001A	28GHz RF Converter
MA80002A	39GHz RF Converter
B0747A	Converter Rack
	Chamber
MA8171A	RF Chamber
MA8174A	Position Controller
MA8175A	Positioner
B0746A	Chamber Rack
Z1996A	28GHz/39GHz Test Antenna
	Options
ME7834NR-001	5G NR RF Combiner Unit 1
ME7834NR-003	5G NR OTA Chamber 1
ME7834NR-007	ME7834NR System Rack 1
ME7834NR-008	ME7834NR System Rack 2
ME7834NR-010	5G NR Signalling Unit 1
ME7834NR-011	5G NR Signalling Unit 2
ME7834NR-020	Positioner
ME7834NR-021	1st OTA unit for 28GHz
ME7834NR-022	2nd OTA unit for 28GHz
ME7834NR-024	1st OTA unit for 39GHz
ME7834NR-025	2nd OTA unit for 39GHz
ME7834NR-027	1st 28GHz/39GHz Test Antenna
ME7834NR-028	2nd 28GHz/39GHz Test Antenna
ME7834NR-070	CAT NR Application 1
ME7834NR-071	CAT NR Application 2
ME7834NR-080	PCT NR Application 1
ME7834NR-200	Common Platform SW 1
ME7834NR-201	Common Platform SW 2
ME7834NR-203	Common Platform SW 4

Model/Order No.	Name
ME7834NR-204	Common Platform SW 5
ME7834NR-205	Common Platform SW 6
ME7834NR-206	Common Platform SW 7
ME7834NR-207	Common Platform SW 8
ME7834NR-208	Common Platform SW 9
ME7834NR-209	Common Platform SW 10
ME7834NR-210	Common Platform SW 11
ME7834NR-211	Common Platform SW 12
ME7834NR-212	Common Platform SW 13
ME7834NR-213	Common Platform SW 14
ME7834NR-214	Common Platform SW 15
ME7834NR-290	Common Platform SW 28
ME7834NR-291	Common Platform SW 29
ME7834NR-292	Common Platform SW 30
ME7834NR-700	PCT NR Subscription, Rel-15 NSA Opt3 FR1
ME7834NR-701	PCT NR Subscription, Rel-15 NSA Opt3 FR2
ME7834NR-702	PCT NR Test Package, Rel-15 NSA Opt3 Phase1 FR1
ME7834NR-703	PCT NR Test Package, Rel-15 NSA Opt3 Phase1 FR2
ME7834NR-708	PCT NR Subscription for Verizon
ME7834NR-709	PCT NR Test Package for Verizon, Stage 1
ME7834NR-711	PCT NR Test Package, Rel-15 NSA Opt3 Phase3 FR1
ME7834NR-712	PCT NR Test Package, Rel-15 NSA Opt3 Phase3 FR2
ME7834LA-075	CAT Application 6
ME7834LA-076	CAT Application 7
	Software
MX783410A	NR Protocol System SW
MX783410A-001	NR TDD Platform
MX783410A-003	Ciphering
MX783410A-004	NR DL 2x2 MIMO
MX783410A-005	NR DL 4x4 MIMO
MX783410A-006	NR DL 2 CA
MX783410A-007	NR DL 3/4 CA
MX783410A-008	NR DL 5/6 CA
MX783410A-009	NR DL 7/8 CA
MX783410A-010	NR UL 2x2 MIMO
MX783410A-011	NR UL 2 CA
MX783410A-012	NR UL 3/4 CA
MX783410A-013	NR UL 5/6 CA
MX783410A-014	NR UL 7/8 CA
MX783410A-291	Band Option Sub6GHz
MX783410A-292	Band Option 28GHz
MX783410A-293	Band Option 39GHz
MX783420A-200	38.523 Rel-15 Subscription, NSA Opt3 FR1
MX783420A-201	38.523 Rel-15 Subscription, NSA Opt3 FR2
MX783420A-202	38.523 Rel-15 Test Package, NSA Opt3 Phase 1 FR1
MX783420A-203	38.523 Rel-15 Test Package, NSA Opt3 Phase 1 FR2
MX783420A-208	38.523 Subscription for Verizon
MX783420A-209	38.523 Test Package for Verizon, Stage 1
MX783420A-211	38.523 Rel-15 Test Package, NSA Opt3 Phase 3 FR1
MX783420A-212	38.523 Rel-15 Test Package, NSA Opt3 Phase 3 FR2
MX783480A	Carrier Acceptance Test Core Software
MX783480A-001	CAT Up to LTE Option
MX783480A-002	5G CAT Option3x Option
MX783480A-092	5G NR 2nd box Option
MX785220A	PROTOCOL CONFORMANCE TEST TOOLKIT CORE SOFTWARE
MX785220A-200	NR Rel-15 PCT NSA Opt3
MX787401A	SET OF SIGNALLING APPLICATION SUPPORT TOOLS
MX787401A-016	PROTOCOL ANALYSER (CAT)
MX800030A	NR Protocol Platform Software
MX800030A-081	Protocol System
	Application Parts
Z2018A	Standard PC for ME7834NR CAT/PCT (with monitor)
Z1452G	Data Server PC (CentOS)
Z1591A	USB Dongle (Protocol)
Z2021A	Upgrade Kit for ME7834LA-to-NR 1st Rack
Z2022A	Upgrade Kit for ME7834LA-to-NR 2nd Rack

Contact your Anritsu sales representative for detailed ordering information.

Related Products



LTE-Advanced
Mobile Device Test Platform
ME7834LA



New Radio RF
Conformance Test System
ME7873NR



Shield Box
MA8161A



RF Chamber
MA8171A

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промышленные технологии и материалы

✉ info@promptim.com

🌐 promptim.com

Anritsu envision : ensure

Specifications are subject to change without notice.

• United States

Anritsu Americas Sales Company

450 Century Parkway, Suite 190, Allen, TX 75013 U.S.A.
Phone: +1-800-Anritsu (1-800-267-4878)

• Canada

Anritsu Electronics Ltd.

700 Silver Seven Road, Suite 120, Kanata,
Ontario K2V 1C3, Canada
Phone: +1-613-591-2003
Fax: +1-613-591-1006

• Brazil

Anritsu Elettronica Ltda.

Praça Amadeu Amaral, 27 - 1 Andar
01327-010 - Bela Vista - Sao Paulo - SP, Brazil
Phone: +55-11-3283-2511
Fax: +55-11-3288-6940

• Mexico

Anritsu Company, S.A. de C.V.

Bldv Miguel de Cervantes Saavedra #169 Piso 1, Col. Granada
Mexico, Ciudad de Mexico, 11520, MEXICO
Phone: +52-55-4169-7104

• United Kingdom

Anritsu EMEA Ltd.

200 Capability Green, Luton, Bedfordshire, LU1 3LU, U.K.
Phone: +44-1582-433200
Fax: +44-1582-731303

• France

Anritsu S.A.

12 avenue du Québec, Bâtiment Iris 1- Silic 612,
91140 VILLEBON SUR YVETTE, France
Phone: +33-1-60-92-15-50
Fax: +33-1-64-46-10-65

• Germany

Anritsu GmbH

Nemetschek Haus, Konrad-Zuse-Platz 1,
81829 München, Germany
Phone: +49-89-442308-0
Fax: +49-89-442308-55

• Italy

Anritsu S.r.l.

Via Elio Vittorini 129, 00144 Roma, Italy
Phone: +39-6-509-9711
Fax: +39-6-502-2425

• Sweden

Anritsu AB

Isafjordsgatan 32C, 164 40 KISTA, Sweden
Phone: +46-8-534-707-00

• Finland

Anritsu AB

Teknobulevardi 3-5, FI-01530 VANTAA, Finland
Phone: +358-20-741-8100
Fax: +358-20-741-8111

• Denmark

Anritsu A/S

c/o Regus Fairway, Arne Jacobsens Allé 7, 5th floor,
2300 Copenhagen S, Denmark
Phone: +45-7211-2200

• Russia

Anritsu EMEA Ltd.

Representation Office in Russia

Tverskaya str. 16/2, bld. 1, 7th floor.

Moscow, 125009, Russia

Phone: +7-495-363-1694

Fax: +7-495-935-8962

• Spain

Anritsu EMEA Ltd.

Representation Office in Spain

Paseo de la Castellana, 141. Planta 5, Edificio Cuzco I

28046, Madrid, Spain

Phone: +34-91-572-6761

• United Arab Emirates

Anritsu EMEA Ltd.

Dubai Liaison Office

902, Aurora Tower, P O Box: 500311- Dubai Internet City

Dubai, United Arab Emirates

Phone: +971-4-3758479

Fax: +971-4-4249036

• India

Anritsu India Private Limited

6th Floor, Indiqube ETA, No.38/4, Adjacent to EMC2,

Doddanekundi, Outer Ring Road, Bengaluru - 560048, India

Phone: +91-80-6728-1300

Fax: +91-80-6728-1301

• Singapore

Anritsu Pte. Ltd.

11 Chang Charn Road, #04-01, Shriro House, Singapore 159640

Phone: +65-6282-2400

Fax: +65-6282-2533

• Vietnam

Anritsu Company Limited

Room No. 1635, 16th Floor, ICON 4 Tower, 243A De La Thanh Street,
Lang Thuong Ward, Dong Da District, Hanoi, Vietnam

Phone: +84-24-3760-6216

Fax: +84-24-6266-2608

• P.R. China (Shanghai)

Anritsu (China) Co., Ltd.

Room 2701-2705, Tower A, New Caohejing International

Business Center No. 391 Gui Ping Road Shanghai, 200233, P.R. China

Phone: +86-21-6237-0898

Fax: +86-21-6237-0899

• P.R. China (Hong Kong)

Anritsu Company Ltd.

Unit 1006-7, 10/F., Greenfield Tower, Concordia Plaza,

No. 1 Science Museum Road, Tsim Sha Tsui East,

Kowloon, Hong Kong, P.R. China

Phone: +852-2301-4980

Fax: +852-2301-3545

• Japan

Anritsu Corporation

8-5, Tamura-cho, Atsugi-shi, Kanagawa, 243-0016 Japan

Phone: +81-46-296-6509

Fax: +81-46-225-8352

• Korea

Anritsu Corporation, Ltd.

5FL, 235 Pangyoeyeok-ro, Bundang-gu, Seongnam-si,

Gyeonggi-do, 13494 Korea

Phone: +82-31-696-7750

Fax: +82-31-696-7751

• Australia

Anritsu Pty. Ltd.

Unit 20, 21-35 Ricketts Road, Mount Waverley, Victoria 3149, Australia

Phone: +61-3-9558-8177

Fax: +61-3-9558-8255

• Taiwan

Anritsu Company Inc.

7F, No. 316, Sec. 1, NeiHu Rd., Taipei 114, Taiwan

Phone: +886-2-8751-1816

Fax: +886-2-8751-1817

200417

