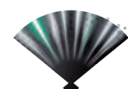


Anritsu envision : ensure

5G NR Mobile Device Test Platform

ME7834NR



5G Testing
Anritsu



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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

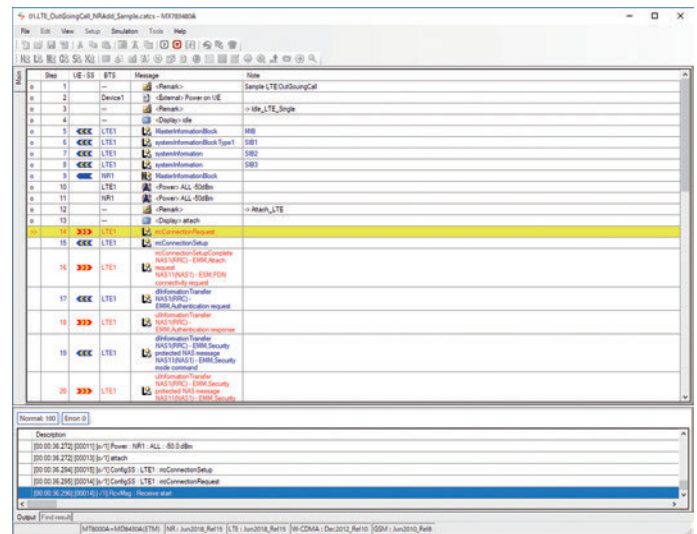
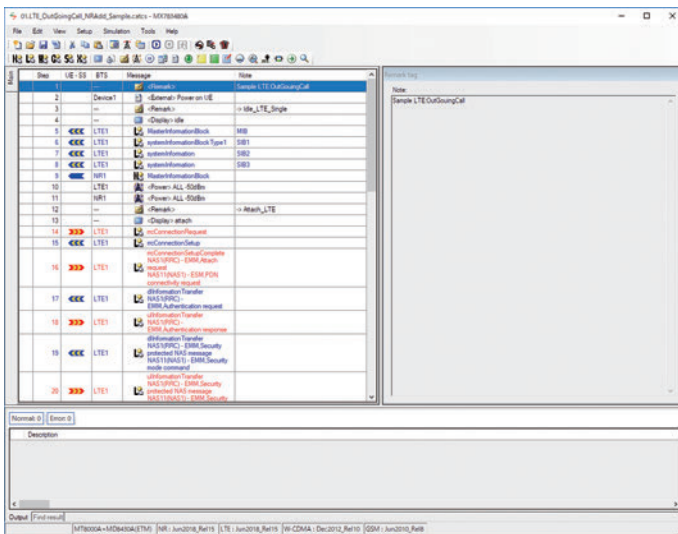
To assure more efficient use of this system, we offer installation and post-technical support services (fees apply to both), which help assure a smooth and trouble-free customer workflow.

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