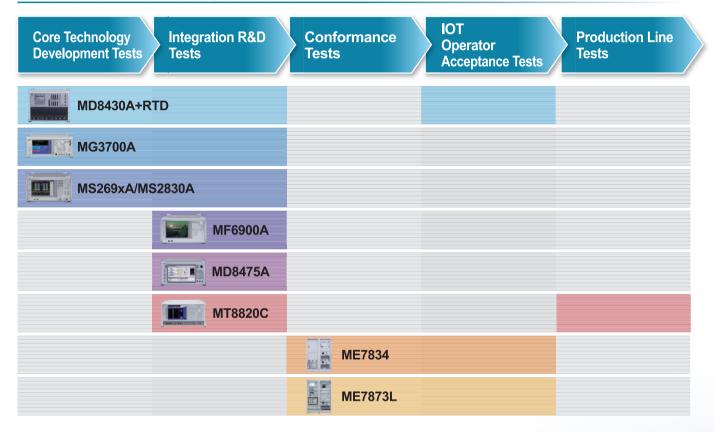


LTE Test & Measurement Solutions

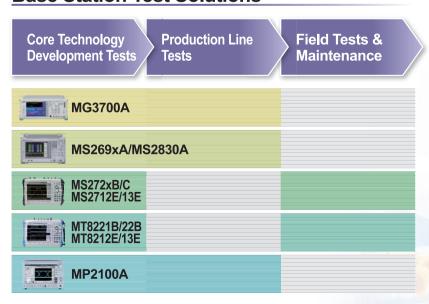




Mobile Terminal Test Solutions



Base Station Test Solutions



LTE logo is a trademark of the European Telecommunications Standards Institute (ETSI).





Supports LTE FDD/TDD Chipsets Ideal Mobile Development Solution



The MD8430A Signalling Tester is an essential base station simulator for developing LTE chipsets and mobile terminals. The built-in 3GPP Rel-8 E-UTRA-compliant RF interface and digital IQ interface support all LTE terminal performance tests required for early development, including coding and decoding, protocol, packet communications with external server, and throughput tests.

In addition, the integrated Rapid Test Designer (RTD) tool with intuitive GUI makes it easy to create, execute, and analyze LTE terminal test cases. A system for testing handover with existing systems is easily configured by combining the MD8430A with the MD8480C (UTRAN/ GERAN) and MD8470A (CDMA2000).

Features

- Responsive support for latest 3GPP LTE FDD/TDD standard
- One unit supports 2×2 MIMO Intra-RAT handover and 4×2 MIMO DL: 100 Mbps/UL: 50 Mbps
- Maximizing existing hardware investment (MD8480C, MD8470A CDMA2000) with Inter-RAT handover tests
- Investment tailored to applications ranging from R&D to protocol conformance tests
- Easy L3 protocol R&D and full range of analysis tools

Field Test QoS Management Pre-CAT/CA Preconformanc Carrier Conformance Acceptance **Tests Tests** L1/L2 Tests Protocol RF/Baseband Sequence Integration Function/ Performance **Tests**

Purpose

- Coding and Decoding tests (RF/Baseband)
- Protocol sequence tests
- Throughput and Stress tests
- Inter-RAT and Intra-RAT handover tests

Key Applications

- Protocol conformance and Pre-conformance tests
- · Network interoperability tests
- Network operator acceptance tests (CAT)
- · Fault troubleshooting
- QA terminal operation evaluation







Digital Fading Simulator Supporting LTE FDD/TDD 2×2 MIMO 2-cell or 4×2 MIMO



The MF6900A Fading Simulator supports LTE and W-CDMA/HSPA mobile terminals with a full range of preset 3GPP fading profiles as well as easy configuration of fading performance and stress test environments. The dedicated digital interface for connecting the MD8430A or MD8480C Base Station Simulator guarantees high simulation reproducibility, easy maintenance, and calibration-free stability. Dual LTE 2×2 MIMO and 4×2 MIMO tests are made easy by this all-in-one unit.

Features

- High reproducibility and maintainability due to full digital baseband
- All-in-one unit supports LTE 2×2 MIMO 2-cell or LTE 4×2 MIMO test environment
- Easy fading settings using dedicated interface with MD8430A/ MD8480C Signalling Tester
- Highly extendible hardware platform

Purpose

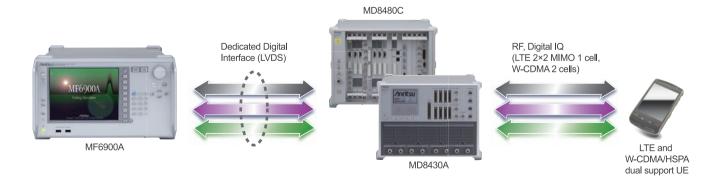
- Coding and Decoding tests (RF/Baseband)
- Fading performance tests
- Throughput performance tests

Key Applications

- RF Conformance and Pre-conformance tests
- Network interoperability tests
- Network operator acceptance tests (CAT)
- QA terminal operation evaluation



The MD8480C Signalling Tester for W-CDMA supports all-in-one LTE/W-CDMA inter-system handover tests (with MF6900A-001 option installed).





Protocol Test System for Mobile Device Development, Conformance, Carrier Acceptance and Behavior Analysis for Multi-RAT



- Flexible platform for multiple technologies and applications
- High quality, advanced and dependable
- Reliable and robust hardware renowned for high quality solutions
- Handset R&D, integration, conformance, interoperability and validation

3GPP TS 36.523 LTE Protocol Conformance Solution (PCT)

ME7834 Protocol Test System is integrated with the MD8430A LTE Signalling Tester and GCF Protocol Conformance Test Toolkit which eliminates troublesome setup, such as cable connections, software installation, and level correction, to maximize protocol conformance testing efficiency and shorten time to market.

The ME7834 is registered as GCF TP119 and tracks TS 36.523 for LTE and TS 34.123 for UTRAN and meets critical deadlines set by the industry. The system may also be configured to meet tests mandated by several network operators.

An existing ME7832A and ME7832L systems can also be upgraded to ME7834 for LTE, providing a Multi-RAT solution for Operators IOT.



Carrier Acceptance Testing for Network Operators (CAT)

Network operators are making use of the ME7834 and its intelligent test tools to ensure that terminals behave correctly on their networks. Terminal development teams simulate conditions in networks that may be thousands of miles away and may not yet support the new functionality present in new handsets.

Test packages for network requirements

Anritsu is able to provide and support a number of network operator specific tests. ME7834 users now have the ability to purchase network operator test packages outright or subscribe to them on an annual basis to suit their fiscal needs.

ME7834 validated network operators test packages are fully documented, watermarked, automated with fading simulation and Pass/Fail test results

Handset development from R&D to conformance and beyond Additional to the 3GPP TTCN-3 scripting language development in ME7834, the RTD tool provides a unique graphical flow chart design tool that is an intuitive and fast way to simulate many different networks scenarios, including:

- Throughput Performance Tests
- Protocol Performance Tests

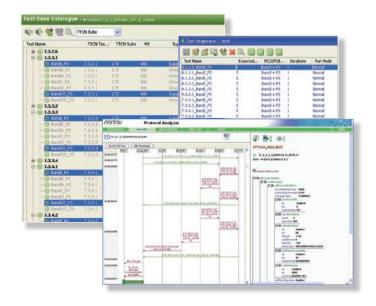
RTD has the ability to create almost limitless network simulations and is now complimented by the MD8430A for LTE and MD8470A for CDMA2000.

Key Benefits

- Flexible test sequence creation and execution using GUI
- · Validated test case library with automation
- Fast & Reliable test execution
- · Integrated protocol analyzer
- Test report generation to industry formats including TOM

Features

- Covers test cases for W-CDMA/LTE UE protocol conformance test and carrier acceptance testing in single system
- Intelligent test sequencer to schedule tests using drag and drop graphical interface for campaign execution
- Extensive library of GCF & PTCRB test cases for 3G/LTE
- Analyze results by Pass/Fail verdict and easily re-run any failed tests
- Protocol analyzer shows entire test sequence of all layers, with time stamps for analysis
- Ability to view/edit/re-run TTCN-3 and RTD tests
- Detailed protocol log analysis of any message highlights difference in expected and received data





Supports FDD/TDD LTE UE RF Conformance Tests



The ME7873L test platform is for testing RF TRx characteristics, performance requirements, and RRM performance of 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) and TS 36.521-3 RRM including LTE→GSM/UMTS/CDMA2000 Inter-RAT tests.*1, *2 Moreover, support for UMTS→LTE Inter-RAT tests is planned. China's planned TDD service is also supported.*2

Supporting Most GCF*3/PTCRB*4 Approved Test Cases*5

This GCF/PTCRB-compatible test platform targets the most and first Test Cases approved at quarterly GCF/PTCRB meetings. It uses the MD8430A Signalling Tester 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.

LTE and W-CDMA Parallel Test Capability

Parallel LTE and W-CDMA Testing

Supports parallel independent LTE and W-CDMA RF Conformance tests with upgrade from ME7873F W-CDMA TRX/Performance Conformance Test System or ME7874F RRM Conformance Test System. Simultaneous parallel measurement of LTE and W-CDMA terminals cuts test times and optimizes equipment cost-performance investment.

Measurement Functions for Efficient R&D

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

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.

E-UTRA Operating Band	UL Operating Band (MHz)	DL Operating Band (MHz)	Operation Area	
1	1920 to 1980	2110 to 2170	Europe, Asia	
2	1850 to 1910	1930 to 1990	North America	
3	1710 to 1785	1805 to 1880	Europe, Asia	
4	1710 to 1755	2110 to 2155	North America	
5	824 to 849	869 to 894	North America, Asia	
7	2500 to 2570	2620 to 2690	Europe	
8	880 to 915	925 to 960	Europe	
9	1749.9 to 1784.9	1844.9 to 1879.9	Japan	
10	1710 to 1770	2110 to 2170	North America	
11	1427.9 to 1447.9	1475.9 to 1495.9	Japan	
12	698 to 716	728 to 746	North America	
13	777 to 787	746 to 756	North America	
14	788 to 798	758 to 768	North America	
17	704 to 716	734 to 746	North America	
20	832 to 862	791 to 821	Europe	
33	1900 to 1920	1900 to 1920	TBD	
34	2010 to 2025	2010 to 2025	TBD	
35	1850 to 1910	1850 to 1910	North America	
36	1930 to 1990	1930 to 1990	North America	
37	1910 to 1930	1910 to 1930	North America	
38	2570 to 2620	2570 to 2620	Asia	
39	1880 to 1920	1880 to 1920	Asia	
40	2300 to 2400	2300 to 2400 Asia		
			71010	

- *1 RRM: Radio Resource Management
- *2 In principle, defined by GCF Work Item*6 and targeting measurement items certified by GCF/PTRCB.
 - (Contact our sales staff for timing of supported items and option configurations.)
- *3 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.
- *4 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.
- *5 As of July, 2011.
- *6 Work Item:

Name of function test items selected by GCF for mobile terminal approval.

Supports Global UE Networks with One Unit



The MD8475A Signalling Tester is a multi-system base station simulator supporting all the world's major mobile communications technologies, including LTE FDD, W-CDMA/HSPA, GSM/GPRS/EGPRS, and CDMA2000 1X/1x EV-DO Rev. A.

It is operated using a simple GUI, eliminating scenario-based operations required by conventional base station simulators. It easily handles both simple tests, such as voice and packet, as well as more complex tests, such as handover and multi-call.

Features

- Support LTE/W-CDMA/GSM/CDMA2000
- Support LTE 2×2 MIMO DL100 Mbps throughput
- Inter-RAT test for LTE to legacy system
- Windows 7 Ultimate installed
- Windows® is a registered trademark of Microsoft Corporation in the USA and other countries.
- CDMA2000® is a registered trademark of the Telecommunications Industry Association (TIA-USA).

Purpose

- R&D for LTE UE
- Remote Command for Automation

Key Applications

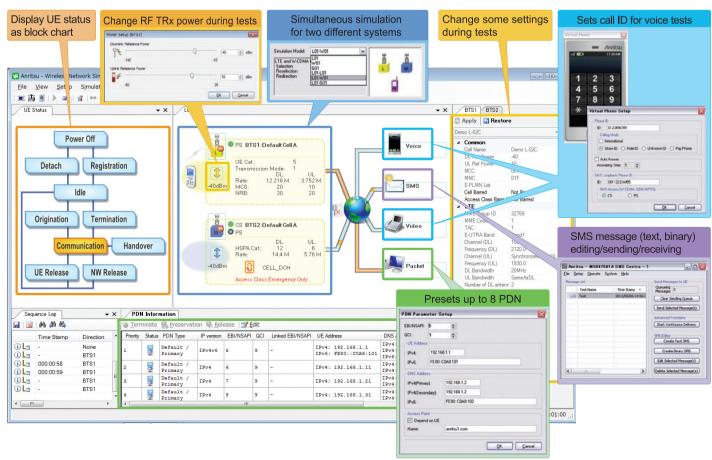
- Voice/SMS/Packet Test
- Throughput Test
- 2-cell System Testing



LTF + 2G/3G UF

User Interface

- One button terminal tests, such as voice call and packet communications
- Supports complex 2-cell tests without scenario





All-in-one RF Tx/Rx Measurement Solution for LTE FDD/TDD Mobile Terminal R&D and Manufacturing



The MT8820C combines high-level signalling and high-performance RF measurement technologies in a single hardware platform covering a wide frequency range from 30 MHz to 2.7 GHz. Installing the LTE FDD Measurement Software MX882012C (LTE TDD Measurement Software MX882013C) and LTE FDD Measurement Hardware MT8820C-008 in the MT8820C supports high-speed and high-accuracy RF Tx/Rx testing LTE FDD (TDD) terminals with UE category 1 and 5 on production lines in either the UE-connected mode or Test mode.

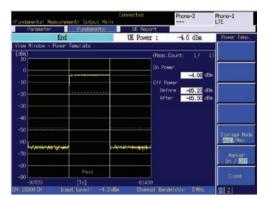
Features

- Supports RF Tx and Rx tests in UE-connected and test modes
- Supports 3GPP-standard test signals
- All-in-one unit supporting LTE/3G/2G R&D and manufacturing

LTE FDD/TDD UE Evaluation

RF Tx and Rx testing in UE-connected and test mode

All RF Tx and Rx tests recommended by 3GPP (TS 36.521-1 chapters 6 and 7) can be performed in both the LTE FDD/TDD UE-connected mode and Test mode (UE not connected). In addition, various RF Tx and Rx test-related parameters can be changed.



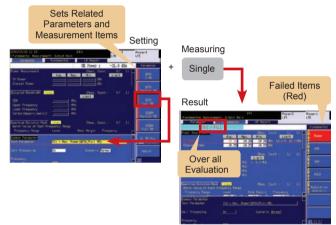
Transmitter Measurement (LTE FDD)



Receiver Measurement (LTE FDD)

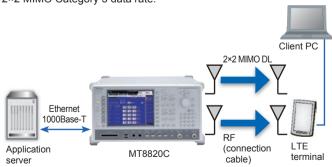
One-touch Setting of Tx Test Items

Settings for 3GPP-compliant main Tx tests are made by one touch operation. Evaluation starts when measurement is completed by pressing "Single", continuously, allowing even novices to perform accurate measurements successfully. In addition, control programs can be created simply and test speed can be faster using relevant GPIB commands.



IP Data Transfer Test (2×2 MIMO)

Simultaneous installation of the MX882012C-006 LTE FDD IP Data Transfer (MX882013C LTE TDD IP Data Transfer) option and the LTE FDD (TDD) 2×2 MIMO DL option supports connection with an external server and enables IP data communication at the maximum 2×2 MIMO Category 3 data rate.



MT8820C Connection Example

- * Requires MT8820C-008 and MX882012C (MX882013C) for the main Tx and Rx characteristics of LTE FDD (TDD) terminal with Call Processing function.
- * Requires MX882042C (MX882043C) for the main Tx characteristics of LTE FDD (TDD) terminal without Call Processing function MX882042C (MX882043C) is non-Call Processing product. Refer to the MX882012C (MX882013C) or MX882042C (MX882043C) catalog for detail.
- * For terminal connectivity, contact your Anritsu sales representative.



Reference Signal Source for LTE TRx Characteristics Evaluation

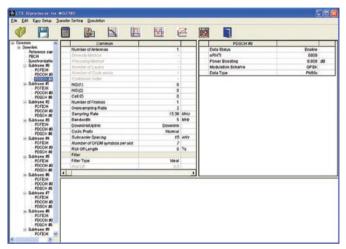


The MX370108A LTE IQproducer is GUI-driven PC application software for generating waveform patterns in compliance with 3GPP LTE FDD (Uplink, Downlink).

The MX370110A LTE TDD IQproducer is GUI-driven PC application software for generating waveform patterns in compliance with 3GPP LTE TDD (Uplink, Downlink).

The generated waveform patterns are downloaded to the MG3700A Vector Signal Generator to output signals.

In addition, combination with the separately sold MX370107A Fading IQproducer generates waveform patterns for SISO/SIMO/MISO/MIMO signals.



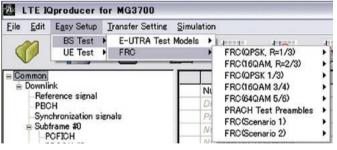
LTE IQproducer Main Screen

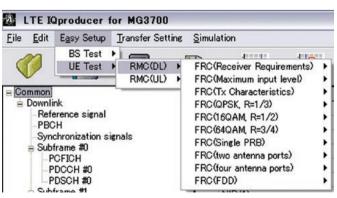
Frame Structure Screen

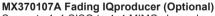
Displays Frame Structure screen for confirming channel allocation status and power of each OFDM Symbol

Easy Setup Function (LTE IQproducer)

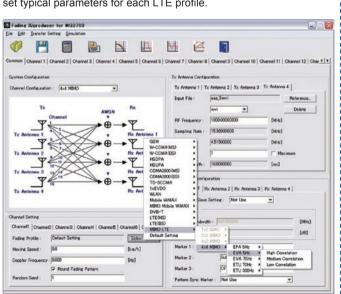
Sets batch parameter typical value for 3GPP-defined test signals.







Supports 1x1 SISO to 4x4 MIMO channel configurations; select preset typical parameters for each LTE profile.



One Unit Supports Tx Characteristics Evaluation



MS269xA Signal Analyzer High-performance and high-function high-end model

Installing the MX269020A LTE Downlink Measurement Software. MX269021A LTE Uplink Measurement Software, MX269022A LTE TDD Downlink Measurement Software or MX269023A LTE TDD Uplink Measurement Software in the MS269xA or MS2830A supports high-speed high-accuracy evaluation of RF Tx characteristics for LTE base stations and mobile terminals.

In addition, installing the Vector Signal Generator option supports simple measurement system setup and cuts the equipment footprint, investment, and running costs (calibration, maintenance and power).

Measurement Functions

Text Display

Frequency Error Output Power EVM (Peak/RMS) Origin Offset Time Offset

(Time offset between the trigger input and the head of the frame)

• Constellation Display

Constellation

Spectrum Display

Adjacent Channel Power Channel Power Occupied Bandwidth Spectrum Emission Mask

Graphical Display

EVM vs. Subcarrier EVM vs. Symbol Spectral Flatness RE Map [MX269020A only] Power vs. Resource Block [DL only] EVM vs. Resource Block [DL only] Time Based EVM [UL only] EVM vs. Demod-Symbol [UL only] In-Band Emission [UL only]

• Power vs. Time [MS269xA, MX269022A only]

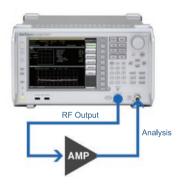
Off Power On Power Transient Period Power at Mask Edge Mask Judge Power vs. Time Graph



MS2830A Signal Analyzer High-speed and low-cost middle range model

Vector Signal Generator (option)

Built-in Spectrum Analyzer and Signal Generator in one unit.



Replay Function for Troubleshooting Faults

LTE signals can be captured as a file for replay by the LTE measurement software to perform analyses, such as EVM measurement.

- R&D use: Supports comparison of retrofitting improvement effects
- Production line use: Supports rechecking of performance data for troubleshooting post-shipping faults



MX269021A LTE Uplink Measurement Software



In-Band Emission Screen

MX269022A LTE TDD Downlink Measurement Software



EVM vs. Subcarrier Screen

MS2721B/MS272xC, MS2712E/13E Handheld Spectrum Analyzer/Spectrum Master



Spectrum Analyzers for LTE Installation and Maintenance



MS2721B/MS272xC Handheld Spectrum Analyzer

The MS2721B/MS272xC series Spectrum Masters represent Anritsu's highest performance handheld spectrum analyzers with six versions including the industry's first 32 GHz and 43 GHz models. New features and signal analysis options, including LTE, bring more value to the user.

Key Features

• 20 MHz LTE FDD/TDD Testing*

RF measurements Modulation quality measurements Over-the-Air Tx testing On-screen coverage mapping

• Spectrum Analyzer (6 models)

9 kHz to 7.1 GHz (MS2721B) 9 GHz (MS2722C) 13 GHz (MS2723C) 20 GHz (MS2724C) 32 GHz (MS2725C) 43 GHz (MS2726C)

• High Accuracy Power Meter Option

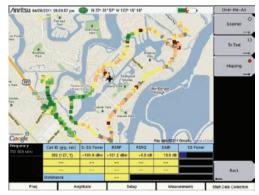
10 MHz to 26 GHz

• 3GPP Signal Analyzers

LTE FDD/TDD, GSM/EDGE, W-CDMA/HSDPA,TD-SCDMA/HSDPA

• 3GPP2 Signal Analyzers

cdmaOne, CDMA2000 1X, CDMA2000 1xEV-DO



LTE Over-the-Air On-screen Mapping



MS2712E/13E **Spectrum Master**

The Spectrum Masters MS2712E and MS2713E are multifunctional. compact handheld spectrum analyzers that eliminate the need to carry multiple instruments. They can be configured to include a broad range of functionality including LTE analysis.

Key Features

• 10 MHz LTE Testing

RF measurements Modulation quality measurements Over-the-Air testing

• Spectrum Analyzer

100 kHz to 4 GHz (MS2712E) 100 kHz to 6 GHz (MS2713E)

• Internal Power Meter

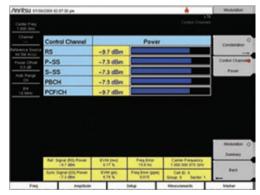
10 MHz to 4 GHz (MS2712E) 10 MHz to 6 GHz (MS2713E)

• 3GPP Signal Analyzers

LTE, GSM/EDGE, W-CDMA/HSDPA, TD-SCDMA/HSDPA

• 3GPP2 Signal Analyzers

cdmaOne, CDMA2000 1X, CDMA2000 1xEV-DO



LTE Control Channel Power and Modulation Quality



Base Station Analyzers for LTE Installation and Maintenance



MT8221B/22B BTS Master

The BTS Master MT8221B and MT8222B are high-performance handheld base station analyzers that have been specifically developed to support the emerging LTE FDD/TDD standards as well as installed 2G, 3G and WiMAX networks.

Key Features

• 20 MHz LTE FDD/TDD Testing

RF measurements Modulation quality measurements Over-the-Air Tx testing On-screen coverage mapping

• Vector Signal Generator 400 MHz to 6 GHz

• 2-port Cable and Antenna Analyzer 400 MHz to 4 GHz (MT8221B) 400 MHz to 6 GHz (MT8222B)

• Spectrum Analyzer 150 kHz to 7.1 GHz

• Internal Power Meter

10 MHz to 7.1 GHz • 3GPP Signal Analyzers

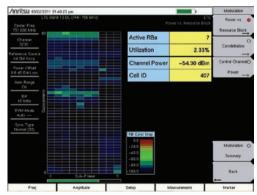
LTE FDD/TDD, GSM/EDGE, W-CDMA/HSDPA, TD-SCDMA/HSDPA

• 3GPP2 Signal Analyzers

cdmaOne, CDMA2000 1X, CDMA2000 1xEV-DO

Backhaul Analyzers

E1, T1, T3/T1



Modulation Quality (Power vs. Resource Block)



MT8212E/13E Cell Master

The Cell Master MT8212E and MT8213E are economical, compact handheld base station analyzers that enable cell site technicians to meet virtually all the measurement needs in and around cell sites.

Key Features

• 10 MHz LTE Testing

RF measurements Modulation quality measurements Over-the-Air testing

• Cable and Antenna Analyzer

2 MHz to 4 GHz (MT8212E) 2 MHz to 6 GHz (MT8213E)

• Spectrum Analyzer

100 kHz to 4 GHz (MT8212E) 100 kHz to 6 GHz (MT8213E)

• Internal Power Meter

10 MHz to 4 GHz (MT8212E) 10 MHz to 6 GHz (MT8213E)

• 3GPP Signal Analyzers

LTE, GSM/EDGE, W-CDMA/HSDPA, TD-SCDMA/HSDPA

• 3GPP2 Signal Analyzers

cdmaOne, CDMA2000 1X, CDMA2000 1xEV-DO

Backhaul Analyzers

E1, T1, T3/T1



LTE Over-the-Air MIMO Transmitter Test

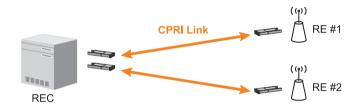
Ideal for LTE CPRI v4.1 Optical Module Evaluation

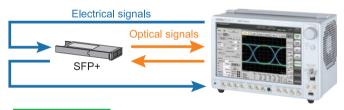
BERTWave



Simultaneous BER measurements and Eye/Pulse analysis using BERTWave increase efficiency and cut measurement time by eliminating time consuming setup. As a result, the BERTWave is the ideal all-in-one solution supporting both R&D and manufacturing. Fully supported LTE CPRI v4.1 bit rates (6.14, 4.92, 3.07, 2.46, 1.32 Gbit/s) make the BERTWave ideal for LTE CPRI optical transceiver inspection tests. And the custom lineup of three configurations cuts equipment costs.

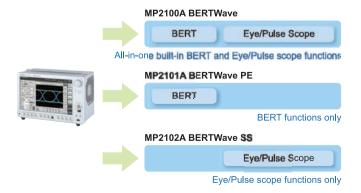
Evaluating LTE CPRI v4.1 Optical Modules



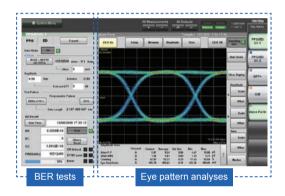


CPRI Line Bit Rate
[Mbit/s]
1228.8
2457.6
3072.0
4915.2
6144.0

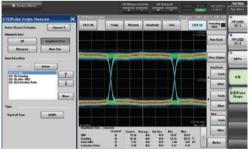
Lineup



Supporting BER Measurements and Eye Pattern Analysis



Typical Waveform



Bit rate: 6.14 Gbit/s, PRBS15, Amplitude: 0.5 Vp-p, 106 samples

Power Meters and Power Sensors for LTE



ML2490A Pulse Power Meter with MA2411B Pulse Sensor



ML2480B Wideband Power Meter with MA2490A Wideband Sensor

ML2490A with MA2411B: Ideal for FDD and TDD LTE

Key Features

• Industry Best Video Bandwidth

39 MHz BW for combination of meter and sensor covers all LTE channel bandwidths to 20 MHz and future proof for wider applications.

• High Sample Rate

62.5 MS/s sample rate with Random Repetitive Sampling to 1 GS/s. is ideal for accurate measurements on TDD based LTE.

Dual Input Model

The ML2496A supports A, B and ratio measurements A/B for amplifier and return loss measurement applications.

Highly visible color display. The results can be displayed graphically or as a direct numerical readout.

Measurements

Average, Min., Max., Peak, Crest and Power Added Efficiency

Power Statistics

PDF, CDF, CCDF

• Gates and Markers

Multiple measurement gates and markers for the precise capture and measurement of the correct section of a complex signal. 4 independent gates and 8 repeated gates can be set for TDD applications. 4 Markers and a delta marker enable the user to pinpoint relevant features of the signal.

Sensor MA2411B

40 GHz frequency range make the MA2411B an excellent sensor for a wide variety of applications in addition to LTE.

ML2480B with MA2490A: Ideal for FDD LTE

Kev Features

• Wide Video Bandwidth

20 MHz BW for combination of meter and sensor covers all current LTE channel bandwidths.

High Sample Rate

62.5 MS/s sample rate provides accurate measurements on wideband signals.

Dual Input Model

The ML2488B supports A, B and ratio measurements A/B for amplifier and return loss measurement applications.

Color Display

Highly visible color display. The results can be displayed graphically or as a direct numerical readout.

Measurements

Average, Min., Max., Peak, Crest and Power Added Efficiency

Power Statistics

PDF, CDF, CCDF

Sensor MA2490A

MA2490A sensor supports 8 GHz requirements.

Note:



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