

MT8510B

Service Tester

W-CDMA/GSM Go/No-Go Tester

MT8510B Service Tester Product Introduction



Ver. 3.00
October 2006
Anritsu Corporation

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MT8510B-E-I-1

Slide 1

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Introduction

The **MT8510B** is the ideal tester for service centers and manufacturers running Go/No-Go tests, call processing tests and antenna tests of W-CDMA/GSM mobile phones. It provides good functionality at a low price and simple operation without expert knowledge of test measurements and instruments.



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Key Features

The following features show the MT8510B has an outstanding price-to-feature ratio for W-CDMA/GSM Go/No-Go tests.

- W-CDMA/GSM Tests in Single Sequence
- Inter-system Handover between W-CDMA and GSM
- Simple Operation
- Compatible with MA8120E Shield Box
- Designed for MA8120E Shield Box
- Software Download Service
- Built-in Printer
- Voice Codec (End-to-End Voice Test)
- High-quality Scenarios and Accurate Measurements

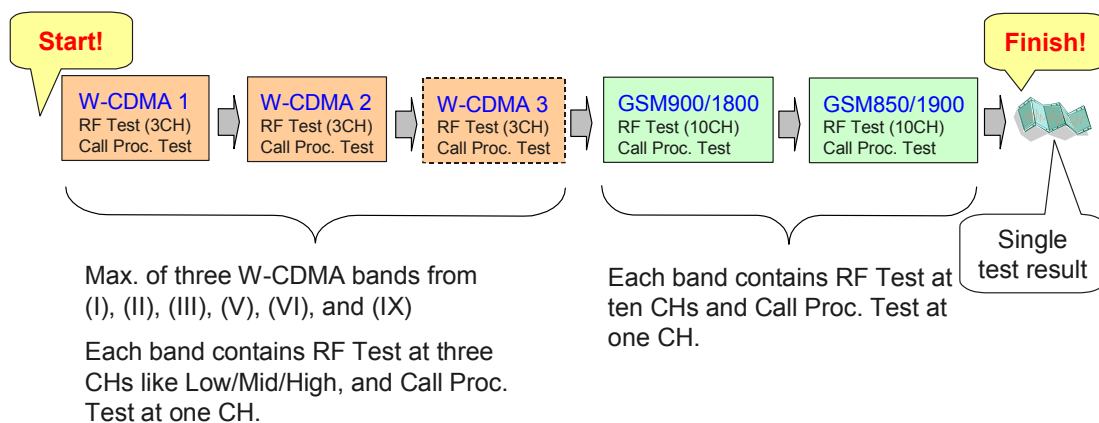
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W-CDMA/GSM Tests in Single Sequence

The MT8510B can test three W-CDMA bands, the European GSM band, and the US GSM band in a single sequence. It simplifies testing, saving, and management of test results.



*Requires MX851000B-02 option to extend two previous W-CDMA bands to three

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Compatible with MA8120E Shield Box

By using the MA8120E letter coordinates in the test parameters, any user can easily place the UE in the same position and avoid placement errors.

MA8120E
Shield Box

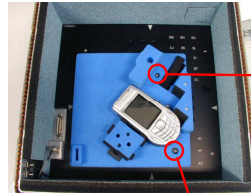


Group
Select the UE Model.
UEModel1_4Dx
UEModel2_4Ex
UEModel3_1Dy
"Start" : Start Test
"Enter" : Select Test Item

UEModel1_4Dx

MT8510B Screen

Ex. Position: 4D, x/y Direction: x



Direction:
x



Position:
4D

Inside MA8120E

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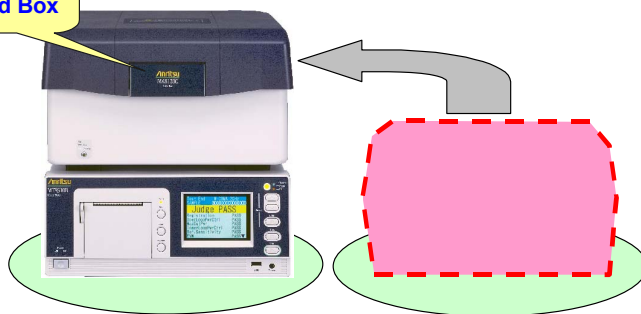
Designed for MA8120E Shield Box

The stackable design saves desk space.

MA8120E
Shield Box



Just connect
cables.



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Software Download Service

The Anritsu Software Download Service^{*1} provides the latest versions of firmware, remote control software, operation manual, and MA8120E Shield Box loss factors.

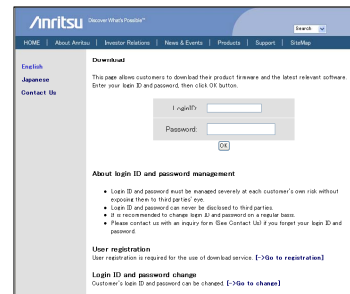
In addition, Anritsu offers test parameters for main UE models so service centers^{*2} can start Go/No-Go testing immediately.

(*2: Only UE vendor service centers)



- Firmware
- Remote Control Software
- Operation Manual
- MA8120E Loss Factors
- Test Parameters

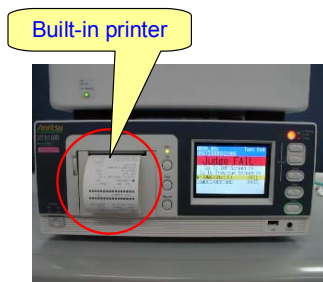
Software Download Service



*1: Requires user registration

Built-in Printer

Test results can be printed on the spot without needing an external printer or PC. The hard copy can be attached to the faulty UE so the repair section can understand the problem immediately.



Go/No-Go Test Line



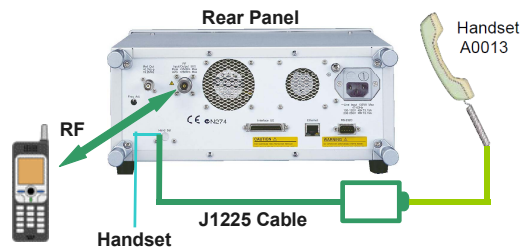
Attached test results



Repair Section

Voice Codec (End-to-End Voice Test)

The Voice Codec option (End-to-End Voice Test) supports real-time voice encoding and decoding to determine whether the fault is at the Tx (microphone) or Rx (earphone) side.



*Requires MT8510B-13, and MX851000B-01 (W-CDMA) or MX851001B-01 (GSM)

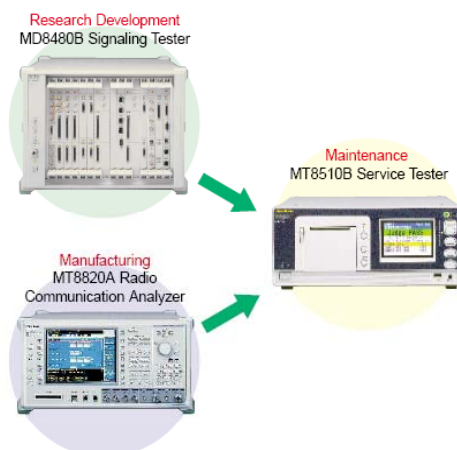
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High-quality Scenarios and Accurate Measurement

The MT8510B is based on the technologies of Anritsu's well-regarded MT8820 Radio Communication Analyzer and MD8480 Signalling Tester to assure high-quality scenario and measurement.



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Basic Features

The MT8510B features:

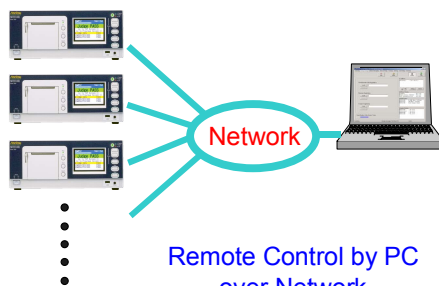
- Standalone Operation and Remote Control by PC
- Easy Maintenance using USB Memory Stick
- Easy Maintenance using PC Software
- Sample Go/No-Go Test Items
- DLL Integration with User Software

Standalone Operation and Remote Control by PC

The MT8510B can be operated as a standalone system or by remote control from a PC. Standalone operation eliminates the cost of a PC. At remote control, the PC can access either one MT8510B unit directly or multiple units over a network.

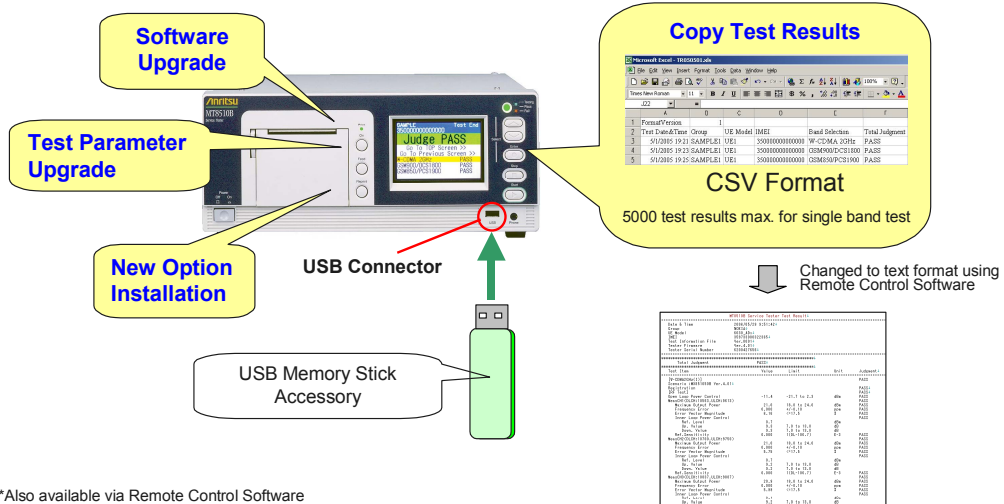


Standalone Operation



Easy Maintenance using USB Memory Stick

Firmware and test parameters can be updated and results saved using a USB memory stick.



*Also available via Remote Control Software

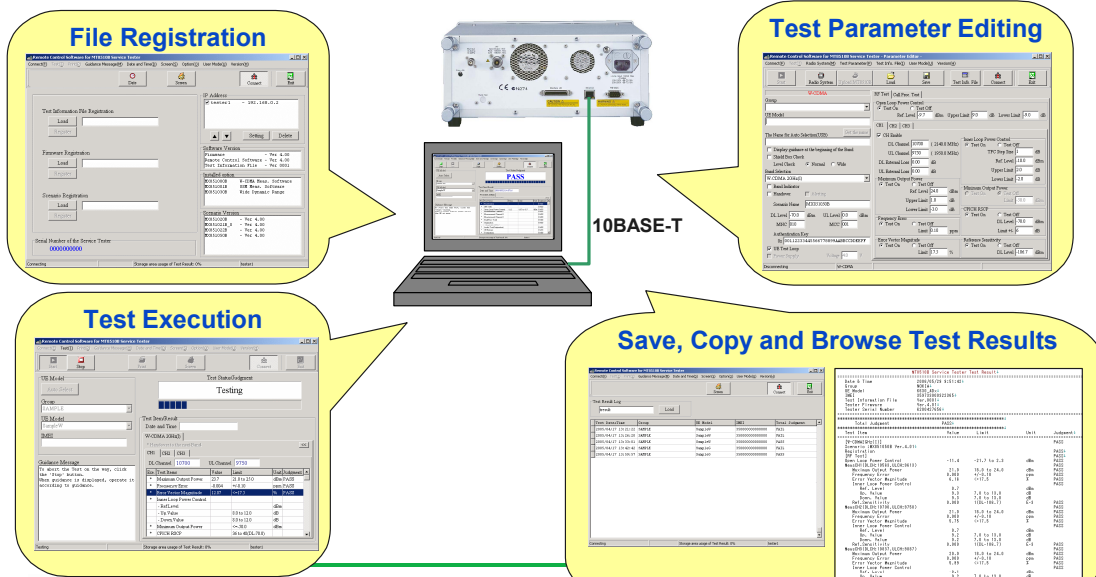
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Easy Maintenance using PC Software

The bundled PC Remote Control Software supports various standard functions.



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Sample Go/No-GO Test Items

The W-CDMA/GSM Go/No-Go test items meet the requirements of main UE vendors.

WCDMA	GSM
Tx Measurement	
Maximum Output Power	TX Power
Frequency Error	Power vs. Time (Template Mask)
Open Loop Power Control	Frequency Error
Inner Loop Power Control	Phase Error (RMS/Peak)
Minimum Output Power ^{*1}	
Error Vector Magnitude (EVM)	
Rx Measurement	
Reference Sensitivity (BER)	BER (FER/RBER C2)
UE Report (CPICH RSCP)	MS Report (Rx Level/Rx Quality)
Call Processing	
Registration, Termination Call, Origination Call, UE Release, NW Release, Echo Back/Voice Codec ^{*2}	
Supported Bands	
WCDMA (I): WCDMA2100	GSM850
WCDMA (II): WCDMA1700	R-E-/P-GSM900
WCDMA (III): WCDMA1900	DCS1800
WCDMA (V)/(VI): WCDMA800	PCS1900

*1: Requires MT8510B-14 and MX851030B

*2: Requires MT8510B-13 and MX851000B-01 or MX851001B-01

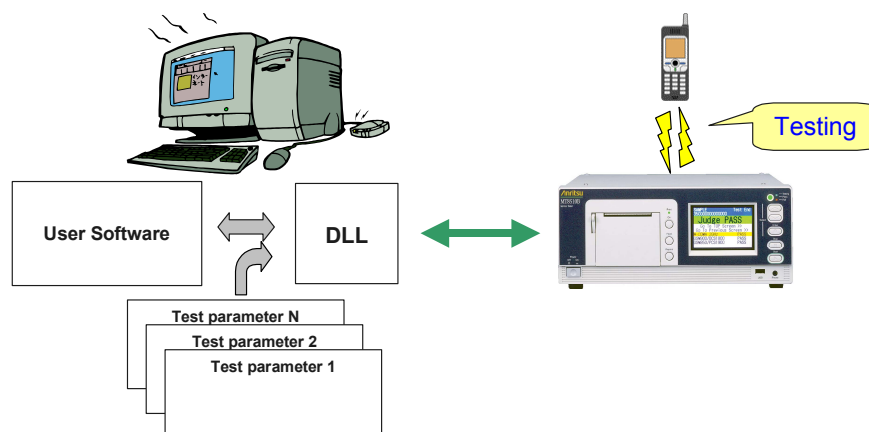
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DLL Integration with User Software

Provision of the MT8510B DLL offers close integration with user software to perform the same test as the bundled Remote Control Software, helping user integration into production lines.



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Conclusion

The MT8510B Service Tester is the best W-CDMA/GSM Go/No-Go Tester with an outstanding price-to-feature ratio.

Main Features

- W-CDMA/GSM Test in Single Sequence
- Inter-system Handover between W-CDMA and GSM
- Simple Operation
- High-quality Scenarios and Accurate Measurements
- Easy Maintenance using USB Memory Stick
- Easy Maintenance using PC software
- Sample Go/No-Go Test Items

Ideal for Service Centers

- Software Download Service
- Compatible with MA8120E Shield Box
- Designed for MA8120E Shield Box
- Built-in Printer
- Standalone Operation and Remote Control by PC

Ideal for UE Manufacturers

- Voice Codec (End-to-End Voice Tests)
- DLL Integration with User Software

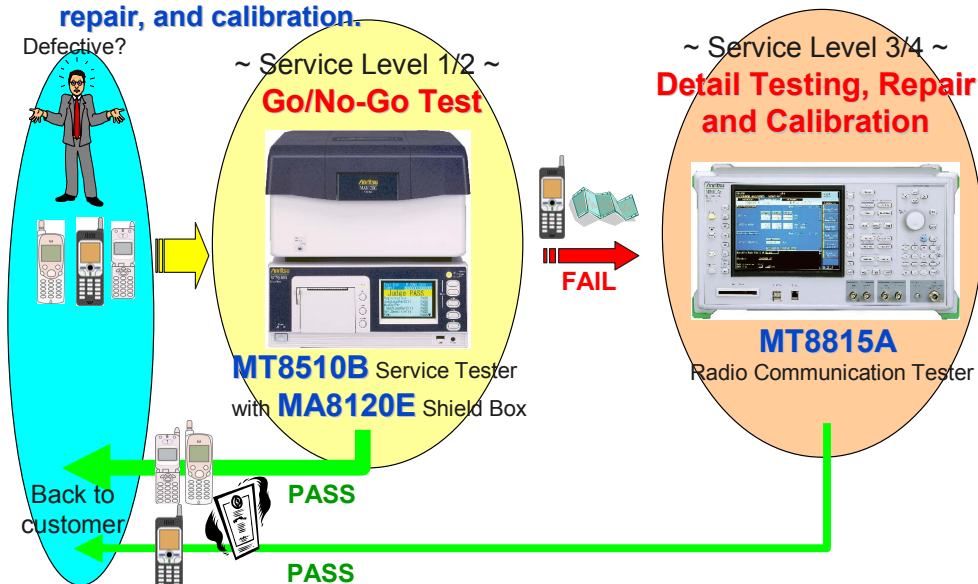
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Appendix: Anritsu's Service Solution

Anritsu provides a complete service solution with the MT8510B + MA8120E for Go/No-Go testing and the MT8815A for detailed testing, repair, and calibration.



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Specifications are subject to change without notice.

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060906



Printed on 70%
Recycled Paper

No. MT8510B-E-I-1-(3.00)



Printed in Japan 2006-10 AKD