

MA8120E

Shield Box

MA8120E Shield Box Product Introduction

Ver. 1.00
September 2006

Anritsu Corporation



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Introduction

The rapid growth and diversity of today's wireless communication market requires more testing of wireless equipment during the development phase.

However, even open-air field tests sometimes do not give reliable results due to the impact of interference waveforms, live networks, nearby electrical equipment, or even the effects of the measurement system itself, etc. Cable connections might not be possible or there may be no RF connector. And antenna tests require connecting an antenna under near-to-live conditions that can be difficult to achieve.

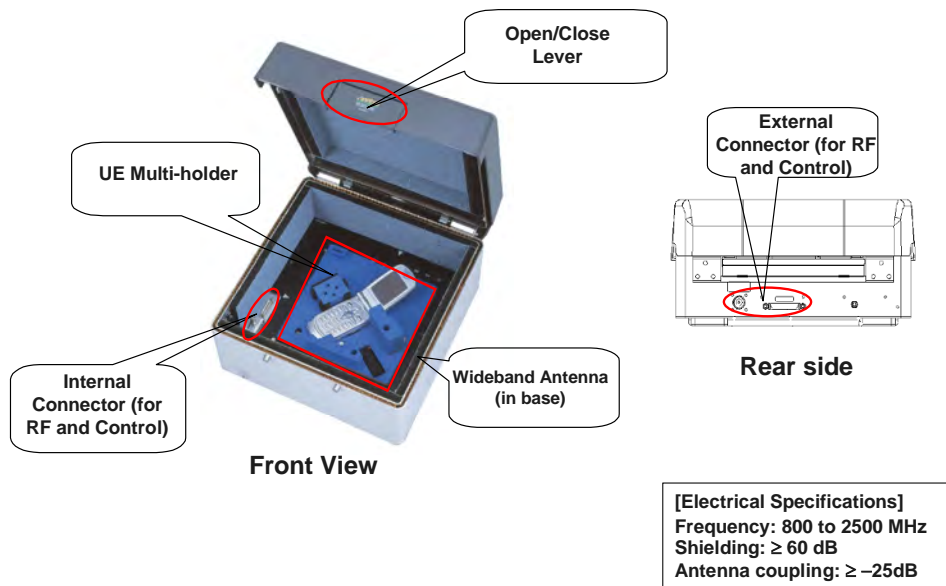
The Anritsu MA8120E Shield Box solves these problems by providing a stable measurement environment via air or cable connection while shutting out external interference.

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Shield Box Part Names



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Key Features

The MA8120E Shield Box features:

- Mounts all major mobile phone mobiles
- Easy reproducible positioning
- Ideal air connections
- Integrated wideband antenna supporting major communication systems
- Feed-through USB and RS-232C control lines
- Simple one-handed operation
- Large capacity and no protrusions
- Compatible with MT8510B Service Tester

The MA8120E Shield Box is ideal for testing software applications and signalling of equipment with integrated radio communication modules, such as Bluetooth and Wireless LAN.

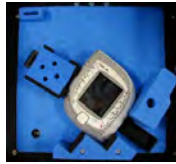
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Mounts All Major Mobile Phone Models

The Multi-holder can hold the various major mobile models, including common designs like clamshell and straight, and uncommon designs like leaf and portable game console.



Leaf



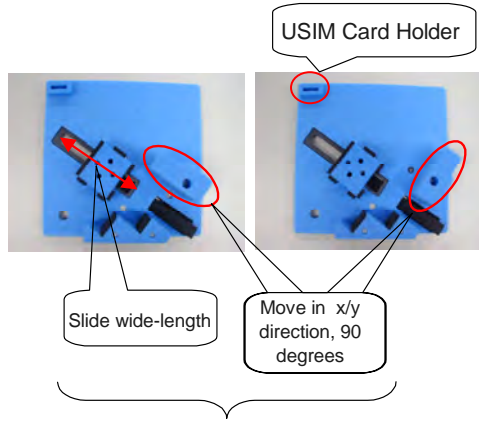
Clamshell



Straight



Portable game console



UE Multi-holder holds all major mobile models

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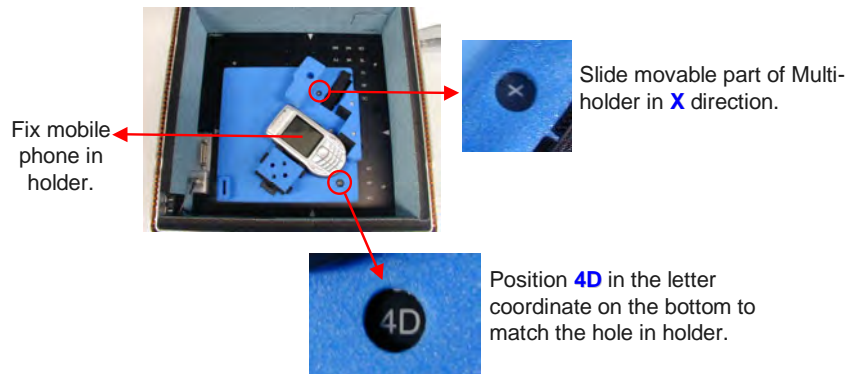
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Easy Reproducible Positioning

By positioning the letter coordinate on the bottom to fit to the positioning hole in the holder, any user can easily place the mobile in the same position to avoid placement errors.

e.g. Position: **4D**, x/y Direction: **X**



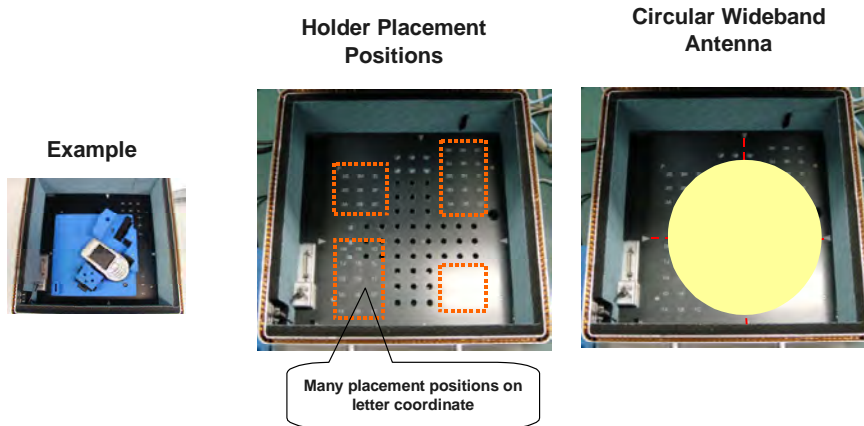
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Ideal Air Connections

Users can choose from many placement positions to obtain the ideal air connection with fewer loss factors and stable measurement.



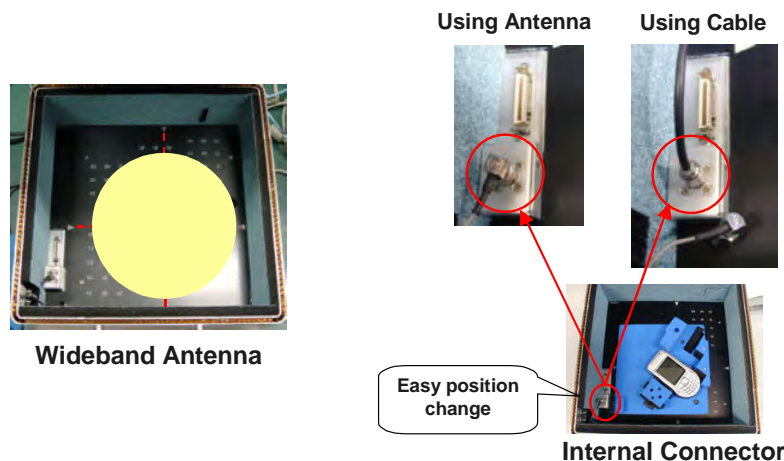
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Integrated Wideband Antenna Supporting Major Communication Systems

The integrated wideband antenna (800 to 2500 MHz) simplifies operation by supporting W-CDMA, cdma2000, GSM, PDC, PHS, Wireless LAN, Bluetooth and GPS terminals using an air connection. Cable connection is also supported.



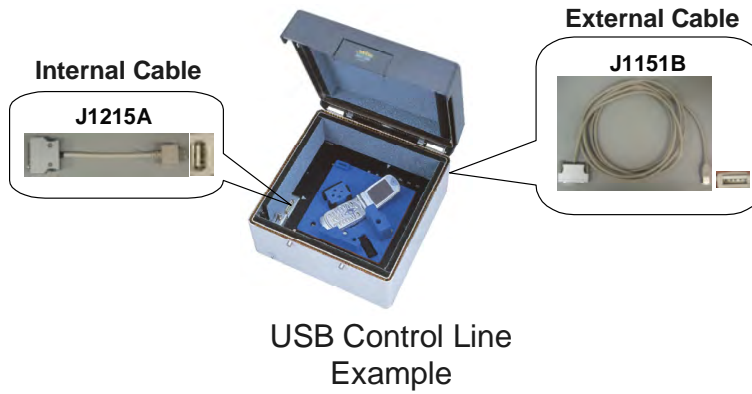
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Feed-Through USB and RS-232C Control Lines

USB and RS-232C lines control the closed Shield Box while eliminating the effect of interference waveforms.



*Order the J1215A and J1151B application cables or prepare your own.

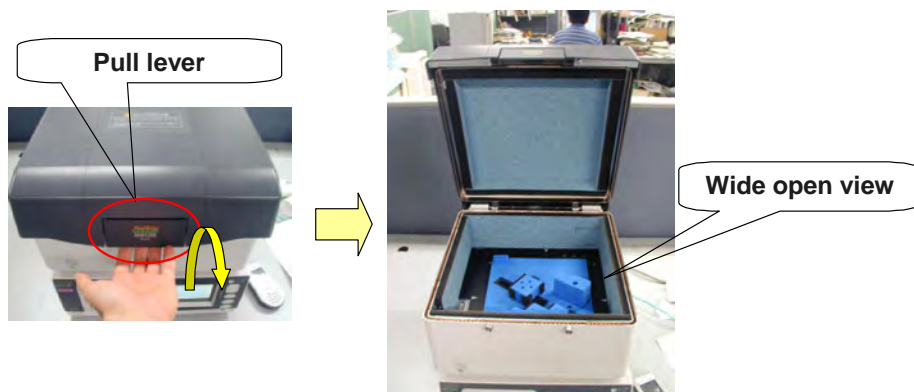
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Simple One-Handed Operation

The Shield Box is easily opened and closed with one hand to eliminate operator fatigue.



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Large Capacity and No Protrusions

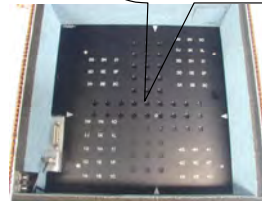
The large capacity easily accommodates large objects such as a cradle and DUT manual operation is easy because there are no protrusions.

Internal Size:
270 (W) x103 (H)
x270 (D) mm

Large enough for
B5 size laptop



Flat and no
protrusions



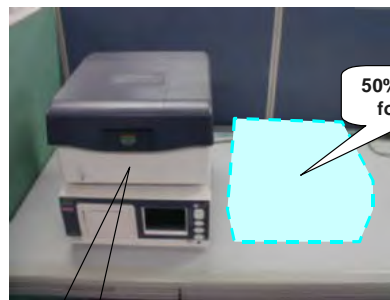
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Compatible with MT8510B Service Tester

The design allows the Shield Box to be stacked on the MT8510B.



Non-slip Design

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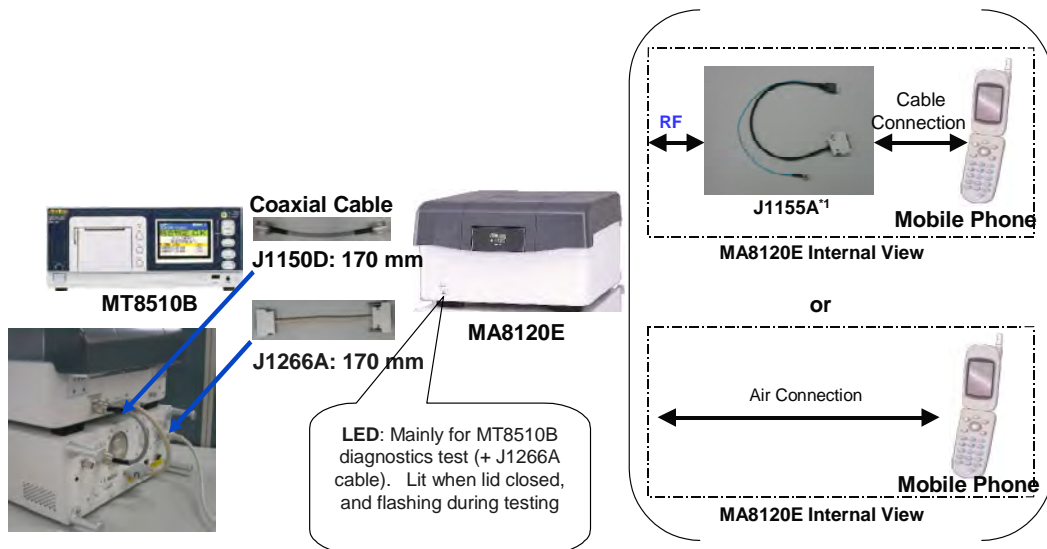
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Appendix: Specifications

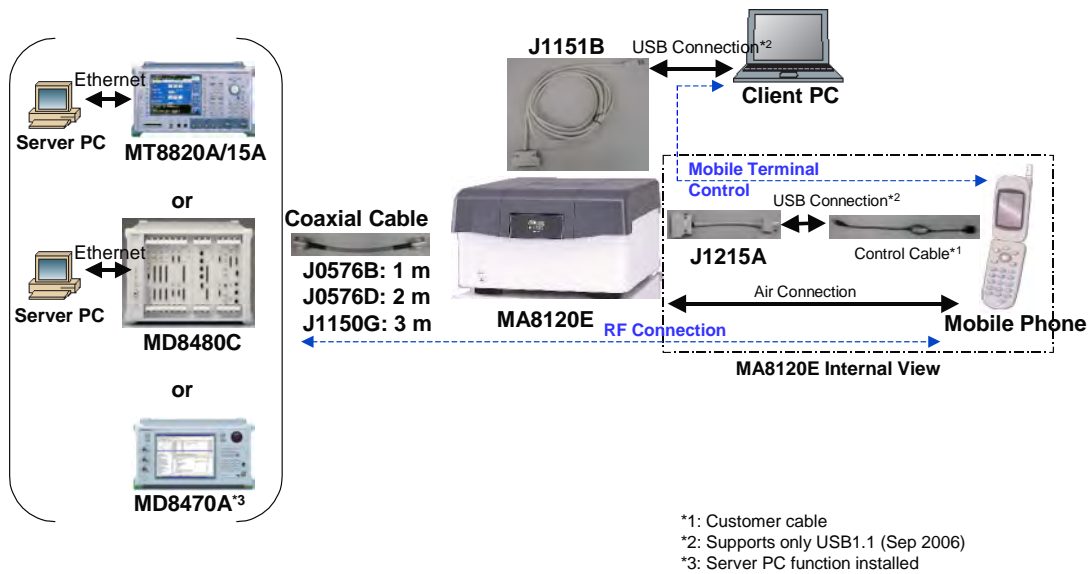
Frequency	800 to 2500 MHz	
Shield performance	≥ 60 dB	
Antenna coupling amount	≥ -25 dB	
Interface	External	RF connector: N type Control connector: DX50 type
	Internal	RF connector: SMA type Control connector: DX36 type
Dimensions and mass	Within 330.8 (W) x 181 (H) x 393 (D) mm (excluding protrusion) 7 kg or less	
Environment conditions	Temperature: 0 to +50°C (operating), -20 to +60°C (storage)	

Appendix: MT8510B Configuration Example



*1: EIAJ-compliant cable

Appendix: Application Test Configuration Example (1)

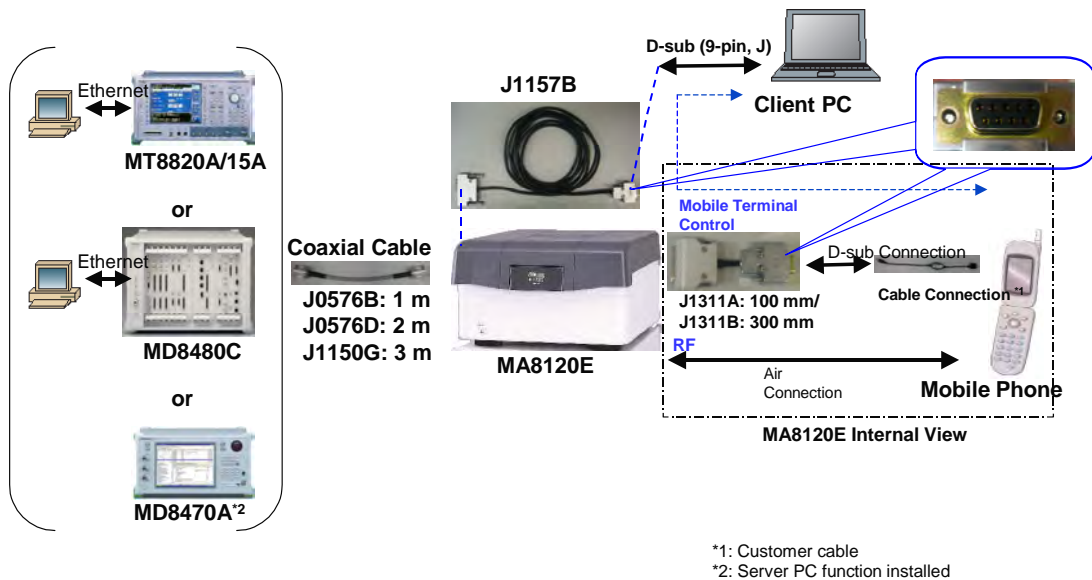


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Appendix: Application Test Configuration Example (2)



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