JRC

Multi System UE Tester
NJZ-2000 Series

cdma2000®1x/1x EV-DO(Rev. A) Test Capability

Fast and Accurate Tester Ideal for Mobile Phone Manufacturers, Repair/Refurbishing Centers, and Carrier Retail Stores

Features

Single Box Multi-System UE Tester
- cdma2000® in addition to GSM/GPRS/EGPRS and W-CDMA/HSDPA

Basic Signaling and TX/RX Tests
- Call Tests: Registration, BS/MS Call, Voice Loop Back, Handover, and BS/MS Release
- TX/RX measurements: Power, Frequency Error, Modulation Accuracy, and Sensitivity

Complete Tool Set
- Automatic Test, Manual Test, TX Analyzer, and Signal Generator
- Optional Shield Box and Automatic Test Software

Wide Frequency Coverage
- 800MHz, 1900MHz, JTACS, Korea PCS, and IMT-2000 Band

High Accuracy (standard compliance)
- Power Measurement +/— 0.6 dB (Typical)

User Friendly Automatic Test Interface
- Automatic Test up to 12 channels
- Quick and easy configuration of test plans
- Test Plan Storage Capability (Main unit, USB Memory Device, and PC)

Test Capabilities beyond Go/NoGo Tester
- Code Domain Power (planned)

Flexible Remote Control Interface
- Ethernet, GP-IB, and RS-232C

JRC Japan Radio Co., Ltd.

Specification Summary

■ Frequency (MHz)

Band Class	Forward link	Reverse link
0 (800 MHz Band)	860 to 894	815 to 849
1 (1900 MHz Band)	1930 to 1990	1850 to 1910
3 (JTACS)	832 to 833	887 to 889, 893 to 901, 915 to 925
4 (Korea PCS)	1840 to 1870	1750 to 1780
6 (2 GHz Band)	2110 to 2170	1920 to 1980

■ Call Tests

cdma2000® 1x	cdma2000® 1x EV-DO
Registration Origination Paging MS Release BS Release Loop Back (Audio and Data) Softer Hand off/Hard Hand off MS Info	UATI Assign Paging Connecting Close Session Close AT Info

Note: Supporting cdma2000® Protocol Revision 6 and cdma2000® 1x EV-DO Revision A.

■ Measurement Functions

cdma2000® 1x	cdma2000® 1x EV-DO
TX Power Maximum TX Power Minimum TX Power Frequency Error Waveform Quality (Rho/Multi-Code Rho) Frame Error Rate (FER) Open Loop Power	TX Power Maximum TX Power Minimum TX Power Frequency Error Waveform Quality (Multi-Code Rho) Packet Error Rate (PER) Open Loop Power

■ TX Analyzer

TX Power	
Measurement Range	−60 dBm to +36 dBm
Accuracy	+/− 1.0 dB (at ≧ 53 dBm)
Frequency Error	
Input Level Range	−20 dBm to +36 dBm
Measurement Range	−10 kHz to +10 kHz
Resolution	1 Hz
Accuracy	+/− (30Hz + Reference Accuracy)
Waveform Quality (Rho/Multi-Code Rho)	
Input Level Range	−20 dBm to +36 dBm
Measurement Range	0.960 to 0.999
Resolution	0.001

■ Frequency Reference

Stability	0.06 ppm/2 year

■ External Remote Control

Ethernet, GP-IB, RS-232C

■ RF Signal Generator

Frequency	
Range	Refer to forward link frequency
Resolution	30 kHz (Band Class 0: 800 MHz Band)
	12.5 kHz (Band Class 3: JTACS)
	50 kHz (Band Class 4: PCS Korea)
	50 kHz (Band Class 1: 1900 MHz Band)
	50 kHz (Band Class 6: 2 GHz Band)
Accuracy	Same as Reference Accuracy
Output Level	
Range	−115 dBm to −18 dBm
Accuracy	+/− 1.0 dBm (at ≦ −50 dBm)
	+/− 1.5 dBm (at > −50 dBm)
Resolution	0.1 dB
Modulation	
Modulation	Pilot Only, Normal Modulation, AM, CW
Modulation Quality (Rho)	> 0.912 (for cdma2000® 1x)
	> 0.97 (for cdma2000® 1x EV-DO)

•Specification may be subject to changes without notice.
•cdma2000® is a registered trademark of the Telecommunications Industry Association (TIA-USA).

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