

JRC

Multi System UE Tester NJZ-2000 Series

**Introducing the World's First Mid Range
Multi-System Tester**

**For use at Operator Retail Shops,
Repair Centers, and Manufacturer Production Lines**



Features

- **Single box multi-system tester**
 - GSM/GPRS (1 X 4 Multi-Slot, SMS) / W-CDMA
- **Supports all GSM/W-CDMA frequency bands**
 - P/E/R-GSM, DCS, PCS, GSM850 / W-CDMA
- **Full Tool Set for repair**
 - Manual test
 - Tx Analyzer, Signal generator
 - Spectrum Monitor
- **High accurate (standard compliance)**
 - Power measurement $\pm 0.7\text{dB}$
- **User friendly with built-in automatic test**
 - Built-in automatic test
- **Stores user configurable test plans and test results**
- **Compatibility with PC peripherals**
- **Supports TCP/IP communications protocol**



Japan Radio Co., Ltd.

Specifications

GSM

GPRS

W-CDMA

Frequency Bands

Band	Frequency (MHz)	
GSM850	824~849	869~894
P-GSM	890~915	935~960
E-GSM	880~915	925~960
R-GSM	876~915	921~960
DCS1800	1710~1785	1805~1880
PCS1900	1850~1910	1930~1990

Band	Frequency (MHz)	
Band I	1920~1980	2110~2170
Band VI	830~840	875~885

Band II~V : Future support

Test Features

- Location Update
- MS Call
- BS Call
- MS Release
- BS Release
- TCH Loop
- Voice Loop back
- Emergency Call
- Handover
- SMS (Short Message Service)

- Attach
- Detach
- Connect (BS Call)
- TCH Loop
- MS Release
- Disconnect

- Registration(Attach)
- Detach
- UE Origination Call
- UE Termination Call
- UE Release
- NW Release
- Voice (AMR) Loop back
- RMC Test Loop Back

Notes: Please contact about UE for which the NJZ-2000 is supporting Call Test.

Measurement Function

- Peak TX Power
- Power Ramp
- Burst Timing
- Frequency Error
- Phase Error
- Sensitivity (BER, FER, BLER)
- Spectrum Monitor

- Maximum Output Power
- Open Loop Power Control
- Inner Loop Power Control
- Frequency Error
- EVM
- Sensitivity (BER)

Transmitter Measurements

TX Power Measurement	
Range	-20~+39dBm
Accuracy	±0.7dB (0~+39dBm) ±1.0dB (-20~0.1dBm)
Frequency Error Measurement	
Input Level Range	-5~+39dBm
Range	0~±60kHz
Resolution	0.1Hz
Accuracy	±(10Hz+Reference Accuracy)
Phase Error Measurement	
Input Level Range	-5~+39dBm
Range	-20~+20°
Resolution	0.1 degree
Accuracy	≤±1.5° rms ≤±6.0° peak

TX Power Measurement	
Range	-60~+36dBm
Accuracy	±0.7dB (0~+36dBm) ±1.0dB (-60~0.1dBm)
Frequency Error Measurement	
Input Level Range	-20~+36dBm
Range	0~±500Hz
Resolution	0.1Hz
Accuracy	±(10Hz+Reference Accuracy)
EVM Measurement	
Input Level Range	-20~+36dBm
Range	0~20%
Resolution	0.01%
Residual EVM	≤3.8% (3GPP Test Limit 17.5%)

Specification of RF signal Generator

Frequency Range	Refer to Operating Down Link Frequency
Frequency Resolution	200kHz
Frequency Accuracy	Same as frequency reference
Frequency Offset	0~±50.0kHz, Resolution : 100Hz
Output Level Range	-20~-110dBm
Output Level Accuracy	-50~-110dBm ±1.0dB (25°C±5°C) -20~-49.9dBm ±1.5dB (25°C±5°C)
Output Level Resolution	0.1dB
Modulation Quality	GSM ≤5° rms ≤15° peak W-CDMA ≤12.5%rms
Modulation	GSM : On/Off (CW) AM Modulation (CW, 1kHz/ 83% fix) W-CDMA : On/Off (CW)

Frequency Reference

Reference Accuracy	0.06ppm / 2year
--------------------	-----------------

• Specifications may be subject to change without notice

For further information, contact:



Since 1915

Japan Radio Co., Ltd.

URL <http://www.jrc.co.jp/>

Main Office: Nittochi Nishi-Shinjuku bldg.
10-1, Nishi-Shinjuku 6-chome
Shinjuku-ku, Tokyo 160-8328, Japan
Telephone: +81-3-3348-3853
Facsimile: +81-3-3348-3935

Overseas Branches : Seattle, Amsterdam
Liaison Offices : Taipei, Manila, Jakarta, Singapore,
Hanoi, New York, Athens