

JRC

W-CDMA UE TESTER NJZ-1900B

**Effective Testing of W-CDMA UE
Under Diagnosis of failure,
Maintenance and Delivery**



NJZ-1900B is designed to perform automatic or manual failure analysis of W-CDMA mobile stations based on 3GPP TS 34.121^{*1} specification. It controls via an Ethernet link to PC.

***1 : For details regarding supported version, contact our sales department.**

Special Features

- User friendly interface with user selectable test items
- Supports signaling tests: Registration, UE origination and termination, release, and AMR (loop back)
- Supports RF and power measurements :
Max / min output power, open / inner loop power control, frequency error, modulation accuracy (EVM), reference sensitivity level, and current consumption



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Measuring UE Characteristics

- (1) Maximum output power
- (2) Frequency error
- (3) Open loop power control
- (4) Inner loop power control
- (5) Minimum output power
- (6) Transmit off power
- (7) Modulation accuracy (EVM)
- (8) Reference sensitivity level
- (9) Current consumption

UE is tested by loop back test interface with 12.2kbps RMC.

Communication Test

- (1) Registration (Attach)
 - (2) UE origination call (AMR*2)
 - (3) UE termination call (AMR*2)
 - (4) Release from Network or UE
 - (5) AMR*2 communication (Loop back at tester side)
- *2 :12.2kbps fixed

Optional features

- (1) AMR speech CODEC (12.2kbps fixed)

Specification

Measurement

- (1) **Power measurement**
Range : -60 to +36dBm
Resolution : 0.1dB
Accuracy : +36 to 0dBm \pm 1dB
 0 to -40dBm \pm 2dB
 -40 to -60dBm \pm 3dB
- (2) **Frequency measurement**
Range : \pm 500Hz
Resolution : 1Hz
Accuracy : \pm 83Hz
- (3) **EVM measurement**
Range : 0 to 20%
Resolution : 0.1%
Accuracy : \pm 8.3%
- (4) **BER measurement**
Range : 1×10^{-3} to 1×10^{-5}
- (5) **Current measurement**
Range : 0 to 1000mA
Resolution : 1mA
Accuracy : 0 to 100mA \pm 3mA
 100 to 1000mA \pm 30mA

Transceiver

Transmit freq : 2110MHz -2170MHz
Receiving freq : 1920MHz -1980MHz
Number of carrier : 1
Step of freq : 200kHz
Freq accuracy : Based on reference oscillator
Output level : -50dBm to -110dBm
Output level accuracy : -50 to -57.9dBm \pm 3dB
 -58 to -68.9dBm \pm 2dB
 -69 to -97.9dBm \pm 3dB
 -98 to -108.9dBm \pm 2dB
 -109 to -110dBm \pm 3dB

Others

Power supply : 100 to 240VAC 50/60Hz
Size : approx. 350(W) \times 165(H) \times 400(D)mm
Weight : Less than 15kg

* Specifications may be subject to change without notice

For further information, contact:



Since 1915

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ISO9001, ISO14001 Certified