

ANRITSU

MT8801B

The Anritsu MT8801B is a versatile radio communication analyzer designed for testing mobile stations across multiple standards including PDC, PHS, GSM, and IS-136A. Operating in a frequency band from 300 kHz to 3 GHz, it integrates basic transmission and reception measurement capabilities, an analog measurement function, and a spectrum analyzer within a single hardware platform.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232C
Display	Color TFT LCD

Physical

Power Supply	100 to 120 V AC / 200 to 240 V AC, 47.5 to 63 Hz, <= 300 VA
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	426 × 177 × 451 mm mm
Weight	18 kg kg

Supported Protocols and Standards

Supported Standards	PDC, PHS, GSM, IS-136A
Call Processing Function	Supported

Physical Layer Interfaces (TX/RX)

Frequency Range (Overall)	300 kHz to 3 GHz
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Transmitter and Signal Generation Capabilities

RF Signal Generator Frequency Range	300 kHz to 3 GHz
AF Generator Frequency Range	20 Hz to 20 kHz
FM Range	10 MHz to 3 GHz
Phase Modulation (ΘM) Range	10 MHz to 3 GHz
RF Signal Generator Output Range (Main)	-143 to -28 dBm
RF Signal Generator Output Range (Auxiliary)	-143 to -3 dBm
AF Generator Output Range (600.)	0.1 mVrms to 3.0 Vrms
AF Generator Output Range (50.)	0.1 mVrms to 0.3 Vrms

Receiver Analysis and Measurement

Frequency Counter Range	10 MHz to 3 GHz
RF Power Meter Frequency Range	300 kHz to 3 GHz
IF Level Meter Frequency Range	10 MHz to 3 GHz
FM Demodulation Frequency Range	50 Hz to 10 kHz
Power Meter Measurement Range	0 to +40 dBm
RF Power Meter Input Level Range	0 to +40 dBm
IF Level Meter Input Level Range	-15 to +40 dBm
Frequency Counter Input Level (Main)	-15 to +40 dBm
Frequency Counter Input Level (Auxiliary)	-40 to +20 dBm
FM Input Level (Main)	-15 to +40 dBm
FM Input Level (Auxiliary)	-40 to +20 dBm
Phase Modulation Input Level (Main)	-15 to +40 dBm
Phase Modulation Input Level (Auxiliary)	-40 to +20 dBm
FM Demodulation Output Level	4 V _{peak}
AF Level Meter Input Level Range	1 mV _{rms} to 30 V _{rms}
AF Frequency Counter Input Level Range	30 mV _{rms} to 30 V _{rms}
Distortion Meter Input Level Range	100 mV _{rms} to 30 V _{rms}
Batch Measurements of Transmission Tests	Supported
Constellation Diagram Display	Supported
Antenna Power Rise/Fall Edge Measurements	Supported
Wide-band Power Meter Function	Supported
Receiver Error Count/Rate Measurements	Supported

General Platform Architecture

Analog Measurement Function	Supported
Spectrum Analyzer Function	Supported
Calibration Functions	Supported

Reference Oscillator

Internal Reference Oscillator Frequency	10 MHz
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AF Generator

AF Generator Frequency Resolution	0.1 Hz
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AF Level Meter

AF Level Meter Frequency Range	20 Hz to 20 kHz
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AF Frequency Counter

AF Frequency Counter Measurement Range	20 Hz to 20 kHz
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Distortion Meter

Distortion Meter Input Frequency Range	1 kHz
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RF Signal Generator

RF SG Frequency Resolution	1 Hz
RF SG Output Level Resolution	0.1 dB
Main I/O Port VSWR	≤1.2 (300 kHz to 1 GHz), ≤1.25 (1 GHz to 2.2 GHz), ≤1.3 (2.2 GHz to 3 GHz)
RF SG Harmonics	<-30 dBc
RF SG Non-Harmonic Spurious	<-50 dBc (offsets ≥ 100 kHz)

Spectrum Analyzer

Spectrum Analyzer Resolution Bandwidth (RBW)	300 Hz to 1 MHz (1, 3 sequence), 5 MHz
Spectrum Analyzer Video Bandwidth (VBW)	10 Hz to 1 MHz (1, 3 sequence), Off

Interfaces

PC Card Slots	PCMCIA Type II, 2 slots
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TECHNOLOGY

Radio Frequency (RF) & Mobile Telecommunications

APPLICATIONS

Mobile Station Production and Maintenance

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.