

ANRITSU

MT8802A

The Anritsu MT8802A is an integrated Radio Communication Analyzer designed for the manufacturing, R&D, and maintenance of major global wireless communication systems. Operating across a frequency range of 300 kHz to 3 GHz, it supports multi-format testing including IS-95, GSM, IS-136A, AMPS, PDC, and PHS. It integrates eight test instruments into a single package, offering advanced DSP-based measurements, call processing, and optional spectrum analyzer capabilities.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232C, N-type (Main RF), TNC (Aux RF), BNC (AF/Audio)
Display	8.4-inch color TFT LCD (640 × 480)

Physical

Power Supply	100 to 240 V AC, 47.5 to 63 Hz, ≤ 300 VA
Operating Temperature	0°C to +50°C °C
Dimensions (W×H×D)	426 (W) × 266 (H) × 450 (D) mm mm
Weight	26 kg (without options) kg

General Platform Architecture

Platform Type	Radio Communication Analyzer
Frequency Coverage	300 kHz to 3 GHz
Integrated Instruments	Eight test instruments in a single package

Physical Layer Interfaces

Main RF Input/Output Connector	N type, 50 Ω impedance
Main RF Input/Output VSWR	≤1.2 (≤2.2 GHz), ≤1.3 (>2.2 GHz)
Auxiliary RF Input/Output Connector	TNC type
Maximum Input Level (Main RF)	+40 dBm (10 W)
Maximum Input Level (Aux RF)	+20 dBm (100 mW)
Reference Oscillator Frequency	10 MHz

Supported Protocols and Standards

Supported Radio Communication Systems	IS-95, GSM/DCS1800/PCS1900, IS-136A, AMPS/NAMPS, PDC, PHS
IS-95 Service Options	Service Options 1, 2 and 9 (for IS-95 and J-Std-008)
Call Processing Testing Support	Call processing and sensitivity testing using the loopback method for GSM/DCS1800/PCS1900 and IS-136A

Signal Generator

Signal Generator Frequency Range	300 kHz to 3 GHz
Signal Generator Frequency Resolution	1 Hz
Signal Generator Output Level Range (Main)	-13 to -133 dBm
Signal Generator Spurious Emissions	≤ -50 dBc (no modulation, offset: 100 kHz to 50 MHz, except carrier 1300–1400 MHz and 2000–2100 MHz)
Signal Generator Spurious (All Band)	≤ -40 dBc
Signal Generator Harmonics	≤ -25 dBc (no modulation)
FM Modulation Internal/External Frequency	20 Hz to 20 kHz
External Modulation Input Level	1 Vpk (terminated)
External Modulation Input Impedance	600 Ω

AF Oscillator

AF Oscillator Frequency Range	20 Hz to 20 kHz
AF Oscillator Setting Resolution	0.1 Hz
AF Oscillator Output Level Range (600 Ω MAIN Output)	0.1 mVrms to 3 Vrms
AF Oscillator Output Level Range (50 Ω MAIN Output)	0.1 mVrms to 0.3 Vrms
AF Oscillator Output Impedance	600 Ω /50 Ω selectable, unbalanced, BNC
AF Oscillator Distortion (1 kHz, 1 V)	≤ -50 dBc
AF Oscillator Distortion (20 Hz to 20 kHz, 1 V)	≤ -45 dBc

RF Analyzer

RF Analyzer Power Meter Frequency Range	10 MHz to 3 GHz
RF Analyzer Power Meter Resolution	0.01 dB
RF Analyzer Power Meter Level Range (Main)	0 to 40 dBm
RF Analyzer Frequency Counter Range	10 MHz to 3 GHz
RF Analyzer Frequency Counter Input Level (Main)	-20 to +40 dBm
RF Analyzer Frequency Counter IF Bandwidth	±30 kHz
RF Analyzer FM Measurement Frequency Range	10 MHz to 3 GHz
RF Analyzer FM Measurement Input Level (Main)	-20 to +40 dBm
RF Analyzer FM Measurement High Pass Filters	HPF (50 Hz, 300 Hz)
RF Analyzer Phase Modulation (øM) Measurement Frequency Range	10 MHz to 3 GHz
RF Analyzer øM Measurement Input Level Range (Main)	-20 to 40 dBm
RF Analyzer øM Measurement High Pass Filters	HPF (50 Hz, 300 Hz)

Audio Analyzer

Audio Analyzer Input Impedance	600 Ω/100 kΩ selectable, unbalanced, BNC
Audio Analyzer AF Level Measurement Frequency Range	30 Hz to 20 kHz
Audio Analyzer AF Level Measurement Range	1 mVrms to 30 Vrms
Audio Analyzer AF Frequency Measurement Range	30 Hz to 20 kHz

Reference Oscillator

Reference Oscillator Aging Rate (Option 01)	$\leq 5 \times 10^{-10}$ /day (after 24 hours warm-up)
Reference Oscillator Temperature Stability (Option 01)	$\leq 5 \times 10^{-9}$ (0°C to +50°C, relative to +25°C)

Environmental

Storage Temperature Range	-20°C to +60°C
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Spectrum Analyzer (Option 03)

Spectrum Analyzer (Option 03) Frequency Range	10 MHz to 3 GHz
Spectrum Analyzer (Option 03) Resolution Bandwidth (RBW)	300 Hz to 1 MHz

Interfaces

Memory Card Slot	PCMCIA Type II
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TECHNOLOGY

Radio Frequency (RF) Test and Measurement

APPLICATIONS

Mobile device manufacturing, wireless transmitter/receiver testing, and network equipment R&D

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