

ROHDE & SCHWARZ

CMU200

The Rohde & Schwarz CMU200 is a modular, third-generation universal radio communication tester designed for production, R&D, and standard-independent testing of multiple wireless protocols. Built to be highly scalable, its 4-rack-unit-high mainframe supports a wide continuous frequency range and incorporates high-speed measurement capabilities, including a comprehensive spectrum analyzer. Through its extensive catalog of hardware and software options, the CMU200 provides accurate signaling and non-signaling test capabilities for technologies ranging from legacy analog (AMPS) to modern 3G digital cellular networks and Bluetooth connectivity.

SPECIFICATIONS

General

Interfaces	IEEE 488 (GPIB), RS-232, PCMCIA
Display	8.4-inch TFT color LCD (640 × 480 pixels)
Memory Card Slots	2 × PCMCIA (front panel)

Physical

Power Supply	100 V to 240 V AC, 50 Hz to 400 Hz
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Supported Technologies and Standards

Cellular Standards Supported	AMPS, TDMA, GSM, GPRS, EGPRS, WCDMA (3GPP FDD), CDMA2000 1xRTT, CDMA2000 1xEV-DO (option dependent)
Wireless Connectivity Standards Supported	Bluetooth (with Option B53)
Signaling Test Modes	AMPS, TDMA, GSM/GPRS/EGPRS, WCDMA 3GPP FDD, CDMA2000 (with corresponding options)
Non-Signaling Test Modes	WCDMA Layer 1 DL/UL (Option B68), CDMA2000 1xEV-DO Rev. 0 and A (Option B88)
Protocol Stacks	WCDMA (3GPP FDD) Layer 1 (with Option B68)

RF Generator Specifications

Frequency Range	10 MHz to 2.7 GHz
Reference Oscillator Aging (Option B11)	2×10^{-7} / year
Reference Oscillator Aging (Option B12)	3.5×10^{-8} / year (high-stability OCXO oven crystal)
Secondary RF Generator	2nd TX RF channel with full functionality (with Option B96)
Auxiliary RF Generator	Supports GSM/GPRS/EGPRS BCCH generation (with Option B95)
RF Level Range Extension	RF1 level range identical to RF2 (with Option B99)

RF Analyzer Specifications

Spectrum Analyzer	Comprehensive spectrum analyzer included
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Audio Generator and Analyzer

Audio Measurement Capabilities	Audio frequency (AF) generator, voltmeter, distortion meter (with Option B41)
Speech Codecs Supported	Internal versatile multimode speech coder/decoder (with Option B52)
CDMA2000 Speech Codecs	8k/13k QCELP, 8k EVRC, EVRC-B (with Option B85)

Interfaces and Connectors

Baseband / IQ Connectors	Analog I/Q IF interface (with Option B17)
Data Testing Interface	Interface for extensive CDMA2000 1xRTT / 1xEV-DO data testing (with Option B87)

Physical Specifications

Architecture	Modular platform (on-site hardware and software expansion capable)
Height	4 rack units (4U)

Inputs & Outputs

RF1 / RF2 Connectors	N female
RF3 / RF4 Connectors	BNC female
RF Impedance	50 Ω
Reference Frequency Input / Output	10 MHz (BNC female)

Control & Automation

Remote Control	IEEE 488.2 (GPIB), RS-232-C
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TECHNOLOGY

Universal Radio Communication Tester

APPLICATIONS

Cellular and Wireless Protocol Testing, Production, and R&D

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