ANRITSU

MW82119A

The Anritsu MW82119A PIM Master is a high-performance, battery-operated, portable passive intermodulation (PIM) analyzer. Designed to meet the demanding requirements of cellular network installation, maintenance, and troubleshooting, the MW82119A is available in multiple frequency-specific band configurations ranging from 700 MHz to 2600 MHz. It provides high-power PIM testing in a ruggedized, field-proven form factor and supports an optional Cable and Antenna Analyzer (Option 707) for comprehensive line sweep measurements.

SPECIFICATIONS

General

Display	8.4 in (213 mm) diagonal daylight-viewable color resistive touchscreen (800 x 600 resolution)
System Impedance	50 Ω

Physical

Operating Temperature	-10 °C to +55 °C °C
Dimensions (W×H×D)	350 mm × 314 mm × 152 mm (13.8 in × 12.4 in × 6.0 in) mm
Weight	9.0 kg - 12.2 kg (band-dependent) kg

RF Transmitter Specifications

Carrier Power Output Range	20 dBm to 46 dBm (0.1 W to 40 W) per transmitter
Carrier Power Resolution	0.1 dB
Carrier Power Accuracy	±0.5 dB (at 43 dBm)
RF Output Port Connector	7/16 DIN female, 50 Ω

RF Receiver Specifications

Receive Frequency Range	698 MHz to 2570 MHz (frequency band-option dependent)
PIM Measurement Range	-130 dBm to -70 dBm

Measurement Capabilities & Features

Supported Measurements	PIM vs. Time, Noise Floor, Distance-to-PIM (DTP), Swept PIM

User Interface and Display

Display Size	8.4 in (213 mm) diagonal
Display Resolution	800 x 600 pixels
Touchscreen Type	Resistive touch

Connectivity & Interface Ports

USB Host Ports	USB 2.0 Type A (x2)
USB Device Port	USB 2.0 Type Mini-B (x1)
GPS Antenna Connector (Option 31)	SMA female

Data Storage and Software

PC Analysis Software Integration	Anritsu Line Sweep Tools (LST)

Power System and Battery Life

Battery Type	Lithium-Ion, rechargeable

Environmental Specifications

Storage Temperature Range	-51 °C to +71 °C
Maximum Operating Altitude	4600 m (15000 ft)

Physical Characteristics

Physical Height	314 mm (12.4 in)
Physical Width	350 mm (13.8 in)
Physical Depth	152 mm (6.0 in)

Regulatory and Standards Compliance

Calibration Interval	12 months (recommended)

Environmental

Vibration Compliance	MIL-PRF-28800F Class 2
Shock Compliance	MIL-PRF-28800F Class 2
MIL-PRF-28800F Compliance	Class 2

Interfaces

External Reference Frequency Input	10 MHz

Options

High Accuracy Power Meter	Option 19 (requires external USB power sensor)

Model Band Options

LTE 700 Band (Option 700)	Tx: 728 - 768 MHz, Rx: 698 - 716 MHz
LTE 800 Band (Option 800)	Tx: 791 - 821 MHz, Rx: 832 - 862 MHz
Cellular 850 Band (Option 850)	Tx: 869 - 894 MHz, Rx: 824 - 849 MHz
E-GSM 900 Band (Option 900)	Tx: 925 - 960 MHz, Rx: 880 - 915 MHz
DCS 1800 Band (Option 180)	Tx: 1805 - 1880 MHz, Rx: 1710 - 1785 MHz
PCS 1900 Band (Option 190)	Tx: 1930 - 1990 MHz, Rx: 1850 - 1910 MHz
UMTS 2100 Band (Option 210)	Tx: 2110 - 2170 MHz, Rx: 1920 - 1980 MHz
LTE 2600 Band (Option 260)	Tx: 2620 - 2690 MHz, Rx: 2500 - 2570 MHz

TECHNOLOGY

Passive Intermodulation (PIM) Analysis

APPLICATIONS

Cellular network site installation, validation, and maintenance