

# Power Master™ MA24507A and MA24510A Millimeter-Wave (mmWave) Power Analyzer



## Remarkable Form Factor

Power Master (MA24507A and MA24510A) is the world's first frequency selectable mmWave power analyzer. It is an ultraportable, USB-powered instrument that measures the RF power of signals up to 110 GHz and as low as -90 dBm. Unlike spectrum analyzers that are bulky, expensive, and complex or power meters that are not frequency dependent and have limited dynamic range, the Power Master enables simple, numeric, frequency based amplitude measurements of up to six signals from 9 kHz up to 110 GHz in a package slightly larger than a cell phone and at an extremely affordable price.

## State-of-the-Art Technology

By utilizing Anritsu's state-of-the-art ShockLine technology, these smartphone-sized instruments can accurately measure the average RF power of almost any signal within a user-defined frequency band, enabling measurements of low-power, mmWave signals like 802.11ad, wireless HD, or E-band wireless communications.



*Power Hunter Mode in PowerXpert™ Software*

## Features and Benefits

- Able to measure very low power signals, as low as -90 dBm
- Excellent for over-the-air testing, especially with mmWave signals that have high propagation loss
- User settings to control measurement speeds and noise floor
- New Channel Monitor mode in PowerXpert for monitoring up to six frequency channels at once
- New Power Hunter mode in PowerXpert for searching up to six signals within a frequency range
- Mounting holes for direct mounting to probes for on-wafer testing



*Power Master™ MA24507A and MA24510A Power Analyzer are Approximately 6" x 3" x 1" in Size and < 1 lb*

# Power Master™ MA24507A and MA24510A

## Millimeter-Wave (mmWave) Power Analyzer

9 kHz up to 110 GHz

**Fast. Reliable. Compact.**

**The Power Master™ MA24507A and MA24510A are ultraportable, frequency-selectable, USB-powered mmWave power analyzers.**

### New PowerXpert Features

To utilize the powerful new capabilities of Power Master solutions, we have added several new features to PowerXpert.

- Support for Power Master solutions general settings, like:
  - Measurement mode
  - Center frequency
  - Span
  - Resolution
- Power Hunter mode: user defines a frequency range within which the Power Master Solutions will identify the six highest CW amplitudes and their corresponding frequency
- Channel Monitor mode: allows users to select up to six frequency channels (up to 20 MHz wide) and monitor their CW amplitude or channel power simultaneously

### Applications

#### R&D

- Use of frequency selectivity to isolate signals for measurement in design verification or troubleshooting
- In the EMI chamber to characterize transmission capabilities through the air or obstacles
- Capitalize on the small size to connect directly to certain on-wafer probes, improving measurement accuracy and repeatability by reducing cable loss

#### Manufacturing

- Post-production over-the-air (OTA) verification testing of transmitters (Bluetooth, Wi-Fi, 802.11ad, or LTE in a tablet, for example)

#### Field

- Troubleshooting wireless backhaul antennas without direct access to transmitters OTA



Anritsu utilizes recycled paper and environmentally conscious inks and toner.



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