

Quick Fact Sheet

PIM Master™ MW82119B

Passive Intermodulation (PIM) Analyzer

with Site Master™ Cable and Antenna Analyzer Option



| | | |
|----------|----------|----------|
| 600 MHz | 700 MHz | 800 MHz |
| 850 MHz | 900 MHz | 1800 MHz |
| 1900 MHz | 2100 MHz | 2600 MHz |

Fully Integrated Test Solution

Anritsu introduces the first fully integrated Passive Intermodulation (PIM) and Cable and Antenna Analyzer (Option 331) with the accuracy and reliability needed to commission and maintain global wireless networks.

Integrated Solution

- > One instrument certifies both PIM and Sweep performance
- > Fewer transit cases to carry to the site
- > Fewer instruments to hoist to top of tower
- > All site data stored in only location for quick retrieval

Passive Intermodulation Analyzer

- > PIM vs. Time
- > Swept PIM
- > Distance-to-PIM (DTP)
- > Noise Floor

Cable and Antenna Analyzer (Option 331)

- > Return Loss, VSWR
- > Cable Loss
- > Distance-to-Fault (DTF)
- > 1-port Phase
- > Smith Chart

Designed for field use

- > Battery Operated, > 3 hour run time per battery
- > Large, Daylight viewable touch screen display
- > Quick Name Matrix simplifies file naming
- > IP54 ingress protection rated
- > MIL-STD-810G transit drop test rated
- > Steel lifting rings



SIZE 350 MM X 152 MM (13.8 IN X 12.4 IN X 6.0 IN)
LIGHTWEIGHT: 9.2 KG TO 12.4 KG (20 LB TO 27 LB), VARIES
BY FREQUENCY OPTION



PIM Master™ MW82119B

Passive Intermodulation (PIM) Analyzer

with Site Master™ Cable and Antenna Analyzer Option

Key Specifications

| Passive Intermodulation (PIM) Analyzer | |
|--|--|
| Measurement Frequencies | 600 MHz, 700 MHz, 800 MHz, 850 MHz, 900 MHz, 1800 MHz, 1900 MHz, 2100 MHz, 2600 MHz |
| Measurements | PIM versus Time, Swept PIM, Distance-to-PIM (DTP), Noise Floor |
| IM products | 3rd, 5th and 7th order IM products (Option 902 also measures 2nd order IM) |
| Test power | 20 dBm (0.1 Watt) to 46 dBm (40 Watt) |
| Low Residual PIM | -117 dBm max / -125 dBm typical, 2x 43 dBm test tones |
| Internal DTP | Fully integrated, no external modules required |
| Cable & Antenna Analyzer | |
| Measurement Frequency | 2 MHz to 3 GHz |
| Measurements | Return Loss, VSWR, Cable Loss, Distance-to-Fault (DTF), Phase, Smith Chart |
| High measurement accuracy: | > 42 dB directivity, OSL calibration |
| High interference immunity | 0 dBm within ± 10 kHz of carrier frequency |
| General | |
| Battery operated | 12 VDC Li-ion Battery, >3.0 hr. run time per battery |
| Small size | 350 mm x 314 mm x 152 mm (13.8 in x 12.4 in x 6.0 in) |
| Lightweight | 9.2 kg to 12.4 kg (20 lbs to 27 lbs.), varies by frequency option |
| Touch screen display | 8.4 in (213 mm) daylight viewable |
| Operating temperature range | -10°C to 55°C |
| Ingress Protection | IP54 rated for dust and water spray, IP67 inside transit case |
| Transportation shock | MIL-STD-810G, Method 516.6, Procedure IV, 122 cm (48 in) drop height, 26 drops, inside soft carry case |
| Remote control | > 300 ft (> 100m) with external WiFi router |
| GPS data tagging | Option 31, requires GPS antenna |
| High Accuracy Power Meter | Option 19, requires USB power sensor |

Ordering Information

| Model Number | Description |
|--|--|
| MW82119B | PIM Master™ Passive Intermodulation Analyzer (Must be ordered with ONE frequency option) |
| Frequency Options (must order one, and only one) | |
| MW82119B-0600 | LTE 600 with 1900 |
| MW82119B-0700 | LTE 700 |
| MW82119B-0701 | APT 700 |
| MW82119B-0800 | LTE 800 |
| MW82119B-0850 | Cellular 850 |
| MW82119B-0900 | E-GSM 900 |
| MW82119B-0902 | E-GSM 900 with IM2 |
| MW82119B-0180 | DCS 1800 |
| MW82119B-0194 | PCS/AWS 1900/2100 |
| MW82119B-0210 | UMTS 2100 |
| MW82119B-0260 | LTE 2600 |
| Other Options | |
| MW82119B-0019 | High Accuracy Power Meter (requires USB power sensor) |
| MW82119B-0031 | GPS Receiver (requires GPS antenna) |
| MW82119B-0331 | Site Master™ Cable and Antenna Analyzer |
| MW82119B-0098 | Standard Calibration to ISO 17025 and/or Z540.1 |
| MW82119B-0099 | Premium Calibration to ISO 17025 and/or Z540.1 plus test data |

Optional Accessories

Calibration Components



Low PIM Adapters and Test Cables



Phase-Stable Test Cables Components



Complete PIM Accessory Kits

