Quick Fact Sheet

PIM Master™ MW82119B

Passive Intermodulation (PIM) Analyzer with Site Master™ Cable and Antenna Analyzer Option

LTE 600 w/1900, LTE 700, 2-Port LTE 700, APT 700, LTE 800, Cellular 850, E-GSM 900, DCS 1800, PCS/AWS, UMTS 2100, LTE 2600

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
- 2-Port PIM (Option 703 only)

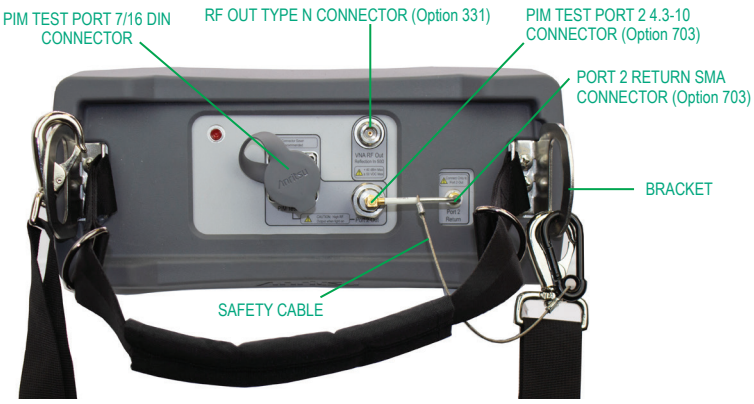
Cable and Antenna Analyzer (Option 331)

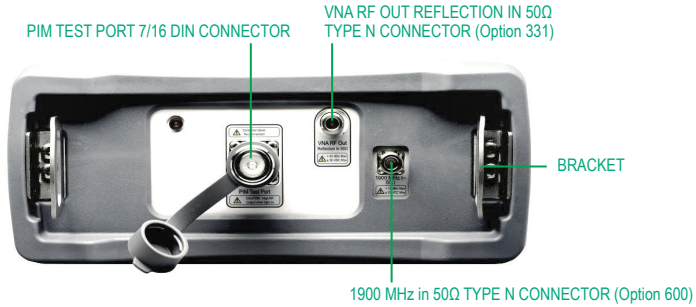
- Return Loss, VSWR
- Cable Loss
- Distance-to-Fault (DTF)
- 1-Port Phase
- Smith Chart

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

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Advancing beyond







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

Quick Fact Sheet

PIM Master™ MW82119B

Passive Intermodulation (PIM) Analyzer
with Site Master™ Cable and Antenna Analyzer Option

Anritsu
Advancing beyond

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
Test Power	20 dBm (0.1 Watt) to 46 dBm (40 Watt) Option 703 only: 1-Port: Two CW Tones 20 dBm to 43 dBm, 0.1 dBm steps 2-Port: Two CW Tones 20 dBm to 46 dBm, 0.1 dBm steps
Low Residual PIM	–117 dBm max / –125 dBm typical, 2x 43 dBm test tones Option 703 only: 1-Port: <–117 dBm, <–125 dBm typical (2x 43 dBm test tones) <–134 dBm, <–140 dBm typical (2x 20 dBm test tones) 2-Port: <–123 dBm (2x 43 dBm test tones) <–115 dBm (2x 46 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 lb to 27 lb), 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 (>100 m) with external Wi-Fi 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-0703	2-Port LTE 700
MW82119B-0800	LTE 800
MW82119B-0850	Cellular 850
MW82119B-0900	E-GSM 900
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

Calibration Components



Low PIM Adapters and Test Cables



Phase-Stable Test Cables Components



Complete PIM Accessory Kits



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Data subject to change without notice. For the most recent specifications visit: www.anritsu.com

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