Quick Fact Sheet

**PIM Master™ MW82119B**

Passive Intermodulation (PIM) Analyzer

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Start MHz</th>
<th>End MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 MHz</td>
<td>600 MHz</td>
<td>800 MHz</td>
</tr>
<tr>
<td>850 MHz</td>
<td>850 MHz</td>
<td>1800 MHz</td>
</tr>
<tr>
<td>1900 MHz</td>
<td>1900 MHz</td>
<td>2600 MHz</td>
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</tbody>
</table>

**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

**Specifications**

- 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

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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW82119B</td>
<td>PIM Master™ Passive Intermodulation Analyzer (Must be ordered with ONE frequency option)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency Options (must order one, and only one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW82119B-0600</td>
</tr>
<tr>
<td>MW82119B-0700</td>
</tr>
<tr>
<td>MW82119B-0701</td>
</tr>
<tr>
<td>MW82119B-0800</td>
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<tr>
<td>MW82119B-0850</td>
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<td>MW82119B-0900</td>
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<td>MW82119B-0902</td>
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<td>MW82119B-0180</td>
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<td>MW82119B-0194</td>
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<td>MW82119B-0210</td>
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<td>MW82119B-0260</td>
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Other Options

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>MW82119B-0019</td>
<td>High Accuracy Power Meter (requires USB power sensor)</td>
</tr>
<tr>
<td>MW82119B-0031</td>
<td>GPS Receiver (requires GPS antenna)</td>
</tr>
<tr>
<td>MW82119B-0331</td>
<td>Site Master™ Cable and Antenna Analyzer</td>
</tr>
<tr>
<td>MW82119B-0098</td>
<td>Standard Calibration to ISO 17025 and/or Z540.1</td>
</tr>
<tr>
<td>MW82119B-0099</td>
<td>Premium Calibration to ISO 17025 and/or Z540.1 plus test data</td>
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Optional Accessories

- **Calibration Components**
- **Low PIM Adapters and Test Cables**
- **Phase-Stable Test Cables Components**
- **Complete PIM Accessory Kits**

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