

ShockLine™ MS46131A

Modular 43.5 GHz 1-Port VNA

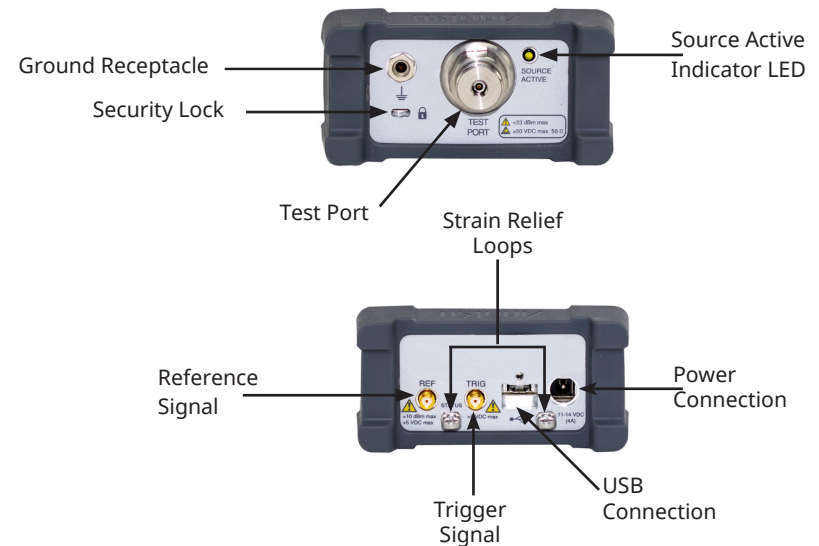
World's only One Port VNA with Extended-K™ ports specified to 43.5 GHz

The ShockLine MS46131A from the family of Anritsu vector network analyzers is packaged in a compact chassis and is externally controlled via USB from a user supplied PC running the same Graphical User Interface (GUI) software as the rest of the ShockLine family of VNAs.

The ShockLine MS46131A benefits from patented shockline VNA-on-chip technology that simplifies the internal VNA architecture at high frequencies, reduces instrument cost, and enhances accuracy and measurement repeatability. The combination of lower cost, small size, and good performance make the ShockLine MS46131A series VNAs ideal for passive device test applications where performance and small form factor are desired.

ShockLine Compact VNA Highlights

- Guaranteed specs with K connector ports to 43.5 GHz for cost-effective measurements.
- Small and lightweight, easily shared between test locations.
- PC control takes advantage of external computer processing power and functionality.
- Compact packaging for efficient use in the field and in the lab for accurate and precise measurements.
- No onboard data storage eliminates the need for data purging in secure applications.
- Time domain with time gating option grants easier and faster fault identification.
- A common GUI interface within the ShockLine family reduces switching costs between models.
- Compatibility with AutoCal and SmartCal units enables fast calibrations.



Simple | Economical | Great Performance

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Quick Fact Sheet

ShockLine™ MS46131A

Modular 43.5 GHz 1-Port VNA



Key Specifications

| Analyzer Performance | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Options | MS46131A-010, 1 MHz to 8 GHz, type N(f) ports MS46131A-020, 1 MHz to 20 GHz, Ruggedized type K(m) ports (compatible with 3.5 mm and SMA connectors) MS46131A-043, 1 MHz to 43.5 GHz, Ruggedized type Extended-K™(m) ports (compatible with standard K (2.92 mm), 3.5 mm, and SMA connectors) |
| Directivity | ≥42 dB |
| High Level Noise | 0.002 dB typical from > 8 GHz to 40 GHz |
| General | |
| Measurement Parameters | 1-Port Measurements S11 or any user-defined combination of a1, b1, 1 |
| Display Graphs | Log Magnitude, Phase, Group Delay, Linear Magnitude, Real, Imaginary, SWR, Impedance, Smith Chart, Polar |
| Measurements Data Points | 2 to 16,001 points |
| Limit Lines | Single or segmented. 2 limit lines per trace. 50 segments per trace. |
| IF Bandwidth | 10, 20, 50, 70, 100, 200, 300, 500, 700 Hz 1, 2, 5, 7, 10, 20, 30, 50, 70, 100, 300 kHz |
| Display Channels and Traces | Up to 16 channels with a maximum of 16 traces each. A separate memory for each trace can be used to store measurement data for later display or subtraction, addition, multiplication or division with current measurement data. The trace data can be saved and recalled. |
| Markers | 12 markers + 1 reference marker per trace |
| Display | Powerful GUI displayed on user-provided computer. |
| Temperature | Operating Temperature -10 °C to 55 °C |
| Dimensions | 52 mm x 148 mm x 36 mm (H x W x D) |
| Weight: | < 1 kg (< 2.2 lb), typical weight |





Product Options

| Option Number | Description |
|---------------|-------------|
| MS46131A-002 | Time Domain |

Calibration Accessories

| Part Number | Description |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MN25208A | 2-Port SmartCal 8.5 GHz USB Auto Calibration Unit |
| MN25218A | 2-Port SmartCal 20 GHz USB Auto Calibration Unit |
| TOSLN50A-18 | Precision N Male Through/Open/Short/Load Mechanical Calibration Tee |
| TOSLNF50A-18 | Precision N Female Through/Open/Short/Load Mechanical Calibration Tee |
| TOSLK50A-40 | Precision K Male Through/Open/Short/Load Mechanical Calibration Tee |
| TOSLKF50A-40 | Precision K Female Through/Open/Short/Load Mechanical Calibration Tee |
| TOSLK50A-43.5 | Precision Extended-K Male Through/Open/Short/Load Mechanical Calibration Tee, DC to 43.5 GHz, 50 ohm, includes .s1p files for data-based calibration support |
| TOSLKF50A-43.5 | Precision Extended-K Female Through/Open/Short/Load Mechanical Calibration Tee, DC to 43.5 GHz, 50 ohm, includes .s1p files for data-based calibration support |
| 36585K | 2-Port AutoCal 40 GHz Auto Calibration Unit |
| 3653A | Type N Calibration Kit |
| 3652A | Type K Calibration Kit |
| 3650A | SMA / 3.5 mm Calibration Kit |

Accessories

| Cables | Automatic Calibration Unit |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |
| Calibration Accessories | Torque Wrenches |
|  |  |



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