

Quick Fact Sheet

MN25408A SmartCal™ Automatic Calibration Unit



Low Cost USB Automatic Calibration Units

The SmartCal MN25408A is a series of 4-port automatic calibration units covering a frequency range from 300 kHz to 8.5 GHz. The MN25408A is available with Option 001, N(f) connectors on all ports.

The MN25408A delivers automatic, fast and error-free calibrations for any ShockLine VNA. The SmartCal automatically powers on via a USB connection and loads calibration kit coefficients from on-board memory into the ShockLine software. The SmartCal is ready to use immediately after detection by the VNA because it doesn't require warm-up.

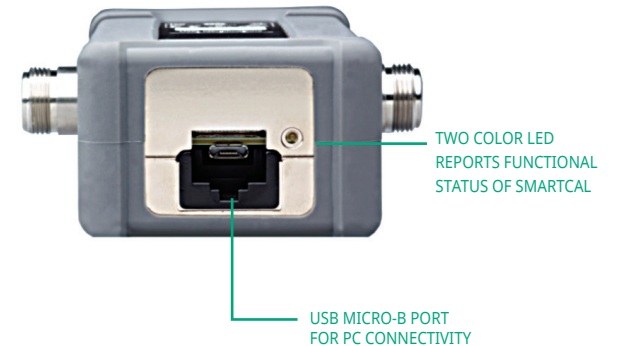
SmartCal improves productivity by providing easier and faster single connection calibrations. Port auto sense and port mapping feature reduce errors and make multiport calibrations easier. The MN25408A, along with easyTest, can also be used in guided graphical test procedures to further simplify complex calibrations.

MN25408A SmartCal™ Highlights

- Auto load of calibration kit coefficients speeds up setups and reduces calibration error.
- Auto sense determines the number of VNA ports connected preventing poor connections and calibration.
- VNA to SmartCal Port mapping increases flexibility and simplifies multiport calibrations.
- ShockLine software auto detects SmartCal providing simple and easy to use calibration software.
- No internal heater eliminates warm up time and provides a stable calibration.
- USB powered and controlled provides the convenience of a one plug interface without an external power supply.
- Single connection calibrations reduce wear and tear on connectors and cables over manual calibrations.
- Supports all ShockLine VNAs with 1-, 2-, 4-port calibration available.
- SCPI command set allows for easy integration into automated test environments.
- Automatic and fast calibrations at a low price.
- Small size provides easier use when moving between VNAs.



N(F) CONNECTOR
(OTHER CONNECTOR
OPTIONS AVAILABLE)



TWO COLOR LED
REPORTS FUNCTIONAL
STATUS OF SMARTCAL

USB MICRO-B PORT
FOR PC CONNECTIVITY



Simple. Economical. Great Performance.

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Key Specifications

Analyzer Performance	
SmartCal Corrected Performance	
Typical Performance	MS46524B
Corrected Source Match	> 35 dB (300 kHz - 5 GHz) > 32 dB (5 GHz - 8.5 GHz)
Corrected Load Match	> 38 dB (300 kHz - 5 GHz) > 33 dB (5 GHz - 8.5 GHz)
Corrected Directivity	> 40 dB (300 kHz - 5 GHz) > 33 dB (5 GHz - 8.5 GHz)
Transmission Tracking	± 0.2 dB (30 MHz - 8.5 GHz)
Reflection Tracking	±0.15 (300 kHz-1 GHz) ±0.08 (1 GHz-5 GHz) ±0.1 (5 GHz-8.5 GHz)

Product Options


Option Number	Description
MN25408A-001	Option1, N(f) - N(f) Connectors

Included Accessories

Option Number	Description
2000-1606-R	1.8 m USB A/ Micro-B latch cable

Recommended Accessories


Option Number	Description
01-200	Torque Wrench, 3/4 in. 0.9 N*m (8 lbf*in), Type N
34NN50A	Precision Adapter, DC to 18 GHz, N(m) - N(m), 50 Ω
33NNF50B	Calibration Grade Adapter, DC to 18 GHz, N(m) - N(f), 50 Ω




Simple | Economical | Great Performance

ShockLine™ Vector Network Analyzer Family


Frequency Ranges from 50 kHz to 92 GHz



MS46121A 1-port USB VNA
MS46122A 2-port USB VNA
MS46322A 2-port Economy VNA



Performance E-Band VNA
MS46522B Option 82
(Not Pictured: MS46524B Option 82)



Performance VNA
MS46522B 2-port
MS46524B 4-port

For more information visit: www.anritsu-shockline.com

Adapters



Torque Wrenches



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