

CRXVT

Vector Network Analyzers

1-Port Series Vector Network Analyzers

This lightweight and compact 1-Port Vector Network Analyzer (X606, X615) can be used in both manufacturing and laboratory settings as part of automated measurement setups.

The 1-Port Vector Network Analyzer can be directly connected to the DUT without any RF cable. This improves measurement accuracy, reduces operating costs and allows to save time on calibration, which can be performed less frequently and under more convenient conditions.

The device is controlled by an external computer. The USB 2.0 interface provides power supply and data communication with the computer.



Key Features:

- Compact and lightweight 1-port Analyzer
- Direct connection to device - no test cable required
- USB-powered
- Basic measurement capabilities: Reflection coefficient magnitude and phase, Cable loss, Time domain analysis with gating (Distance to fault)
- Calibrating with mechanical kit or Automatic Calibration Module
- Windows/Linux-based touchscreen-oriented Software
- Software remote control via SCPI (over HiSLIP or TCP/IP Socket) and COM/DCOM.



Optional measurement capabilities:

- RNVNA - Transmission magnitude measurement using 2 reflectometers

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Available models

Model	Frequency Range	Impedance / Number of Ports	Measured Parameters	Dynamic Range ² (typ.)	Output Power	Measurement Time per Point
X606	1 MHz to 6 GHz	50 Ohm/1	S11, cable loss S11, S21 , S12 , S22 ¹	119 dB	-40...0 dBm	100 μ s
X615	85 MHz to 15 GHz	50 Ohm/1	S11, cable loss S11, S21 , S12 , S22 ¹	125 dB (85 MHz...4.8 GHz) 105 dB (4.8 GHz...15 GHz)	0 dBm; -25 dBm	170 μ s

Software and Hardware Capabilities

CALIBRATION OPTIONS

Support for Automatic Calibration Modules

Yes

Waveguide calibration

Yes ³

MEASUREMENT CAPABILITIES

Fixture Simulation (Embedding and De-embedding)

Yes

Time Domain Analysis and Gating

Yes

SYSTEM REQUIREMENTS

Operating System

Windows 10 and above, Linux

Processor

1 GHz

RAM

2 GB

Communication interface

USB 2.0 High Speed

¹ With two 1-Port Vector Network Analyzers.

² With a 10 Hz IF filter bandwidth.

³ To perform a full 1-port calibration, a waveguide calibration kit type SSL Offset Short 1/8, Offset Short 3/8, Load is required. Please contact CRXVT for the calibration kit configuration.

