

CRXVT

Vector Network Analyzers



The Compact Series of Vector Network Analyzers

(X1201, X1203, X1204, X1206, X1209) provides measurements of complex transmission and reflection coefficients (S-parameters) of DUTs. The Compact Series is used for testing, configuring, and developing devices in both manufacturing and laboratory settings as part of automated measurement setups. The Compact Series analyzers differ from each other in their frequency range and dynamic measurement range.

The Compact Series analyzers are 2-port instruments that support pulse mode measurements (PLS-X option). The device features an embedded pulse modulator capable of generating pulse signals with a minimum duration of 200 ns, along with a synchronizer and logic generators that enable various pulse measurement modes: «Point-in-pulse», «Pulse Profile», and «Asynchronous Pulse». The minimum time resolution in the Pulse Profile mode is 2 μ s.

The analyzer is controlled by an external PC running dedicated software, which processes information and provides GUI. A USB C interface is used to communicate with the PC.

Key Features:

- Uncompromising parameters in compact and lightweight form factor
- Active and passive components and devices measurement
- Basic measurement capabilities: S-parameters and absolute power measurement, time domain analysis with gating, frequency converting devices measurement
- Calibrating with mechanical kit or Automatic Calibration Module
- Windows/Linux-based Software
- Software remote control via SCPI (over HiSLIP or TCP/IP Socket) and COM/DCOM

Optional measurement capabilities:

- ACP-X - Compression point measurement
- AFR-X - Automatic Fixture Removal
- SPM-X - Spectrum measurement
- PLS-X - Pulsed measurement



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Available models

Model	Frequency Range	Impedance / Number of Ports	Measured Parameters	Dynamic Range ¹ (typ.)	Output Power	Measurement Time per Point (typ.)
X1201	9 kHz to 1.5 GHz	50 Ohm/2	S11, S21, S12, S22	137 dB	-55...+5 dBm	24 μ s
X1203	9 kHz to 3 GHz					
X1204	9 kHz to 4.5 GHz					
X1206	9 kHz to 6.5 GHz					
X1209	9 kHz to 9 GHz			135 dB		

Software and Hardware Capabilities

HARDWARE CAPABILITIES

Built-in Pulse Generators and Modulators (PLS-X option) Yes

CALIBRATION OPTIONS

Support for Automatic Calibration Modules Yes

Waveguide calibration Yes

Calibration with a Power Meter Yes

MEASUREMENT CAPABILITIES

Fixture Simulation (Embedding and De-embedding) Yes

Calculator Yes

Time Domain Analysis and Gating Yes

Source to Receivers frequency offset mode Yes

Scalar Mixer Calibration and measurement Yes

Vector Mixer Calibration and measurement Yes

Frequency Offset Adjustment Yes

Pulse Measurements (PLS-X option) Yes

Compression point measurement (ACP-X option) Yes

Spectrum measurement (SPM-X option) Yes

FIFO Buffer Yes

Automatic Fixture Removal (AFR option)² Yes

SYSTEM REQUIREMENTS

Operating System Windows 10 and above, Linux

Processor 1.5 GHz

RAM 4 GB

Communication interface USB 2.0 High Speed

¹ With a 10 Hz IF filter bandwidth.

² The AFR-X option supports 16-port devices

