

KEYSIGHT TECHNOLOGIES (AGILENT HP)

89601B

The Keysight 89601B (formerly Agilent) Vector Signal Analysis (VSA) Software is a comprehensive PC-based tool for measuring, analyzing, and troubleshooting complex RF, microwave, and digital signals. It supports a wide array of Keysight hardware platforms, including X-Series signal analyzers, Infiniium oscilloscopes, and PXI modular instruments. The software provides advanced demodulation, extensive spectral analysis, and custom signal analysis capabilities for cellular, wireless connectivity, aerospace/defense, and general-purpose applications.

SPECIFICATIONS

General Information & Licensing

Software Type	Vector Signal Analysis (VSA) Software
License Types	Node-locked, Transportable, Floating, USB Portable

Supported Hardware Platforms

Supported Signal Analyzers	Keysight X-Series (PXA, MXA, EXA, CXA), PSA Series
Supported Oscilloscopes	Keysight Infiniium Series, InfiniiVision Series
Supported Modular Instruments	Keysight PXIe Vector Signal Analyzers, PXIe Oscilloscopes

Measurement & Analysis Functions

Time Domain Measurements	RF Envelope, I/Q Waveforms, Auto-correlation
Frequency Domain Measurements	Spectrum, Power Spectral Density (PSD), CCDF
Modulation Domain Measurements	Error Vector Magnitude (EVM), Constellation, Eye Diagram, Symbol Table, Trellis

Supported Modulation Formats & Standards

General Purpose Analog	AM, FM, PM (Option AYA)
General Purpose Digital	FSK, BPSK, QPSK, 16 to 4096 QAM, MSK, APSK (Option AYA)
Custom OFDM	Supported (Option BHF)
Cellular Standards	LTE / LTE-Advanced, W-CDMA / HSPA+, GSM / EDGE, cdma2000, TD-SCDMA (Option dependent)
Wireless Connectivity Standards	802.11a/b/g/j/p/n/ac/ax, Bluetooth, ZigBee, RFID (Option dependent)
Aerospace & Defense Standards	Radar, FMCW, SOQPSK, MIL-STD-188-165A (Option dependent)

Display and User Interface

Trace Formats	Log Mag, Lin Mag, Real, Imaginary, Phase, Unwrapped Phase, I-Q, Constellation, Eye Diagram, Spectrogram, Trellis
Spectrogram Display	Supported
Marker Functions	Band Power, Occupied Bandwidth, ACP, Delta, Peak Search

Signal Capture and Playback

Supported Playback File Formats	.sdf, .mat, .csv, .txt, .bin
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Performance Characteristics

Maximum Analysis Bandwidth	Hardware dependent
Center Frequency Range	Hardware dependent

Automation and Integration

Supported Programming Languages	C#, VB.NET, C++, Python, MATLAB, LabVIEW
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TECHNOLOGY

Vector Signal Analysis

APPLICATIONS

RF & Microwave Signal Demodulation and Analysis

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