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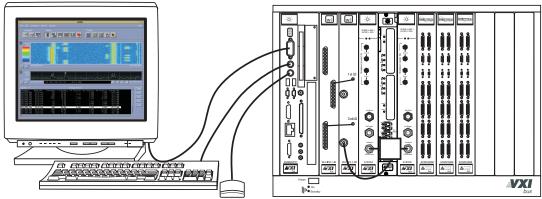
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Agilent E3238 Signals Development System

Technical Specifications





Performance

The Agilent E3238 is designed to quickly locate elusive signals. E3238's fast sweep rate and high dynamic range significantly increase the probability of intercept. With the E3238, searches produce more hits quickly and efficiently.

Automation

The E3238 system automates common tasks so an operator can focus on more complex operations, work faster and accomplish more. It allows highly skilled operators to automate functions for less skilled operators. The system can even run unattended.

Adaptability

Optional user-programming software can be used to customize the E3238. Searches can be optimized to capture the signals of interest while disregarding extraneous signals. Displays can also be customized to increase productivity.

Integration

The E3238 can integrate with legacy systems and hand-off receivers. LAN, GP-IB, RS-232, or the VXI backplane can be used to communicate with other hardware. Windows® sockets provide fast communication between software processes, even from remote locations.



Standard Software Features

(Applies to all configurations of the E3238)

File
Secure display
Access control Password
Working directory
Snapshot directory
Log files
Load mission setup
Save mission setup
Preset mission setup
Print
Print to file
Socket connections
Shared libraries

Exit

Edit
Clear log
Clear log files
Clear energy history
Clear signal database
Clear frequency lists
Clear audio output
Clear all
Configuration
Configuration Antennas
Antennas
Antennas Search receiver
Antennas Search receiver Handoff receivers
Antennas Search receiver Handoff receivers Time reference

S	Gearch Off On
3	Search type
(General search
[Directed search Up to 100 segments
1	Tuner sweep control Locked, unlocked
— ī	General search setup
(Center frequency
9	Span frequency
5	Start frequency
5	Stop frequency
F	-ull span
A	Antenna selection
A	Attenuation
F	Resolution bandwidth 7.3 Hz – 120 kHz (tuner and ADC dependent)
5	Shape factor 9:1 4:1 2.6:1
ļ	Average type Off RMS Peak
1	Number of averages 1-31

Search

Energy detection

Energy detection Off

On

Energy criteria

dB above threshold Bandwidth

Features

User-generated with AS9

Threshold

Threshold margin (dB) Number of segments Smoothing factor Minimum signal level

Energy history filter

(User-created with AS9)

Pre-filter(s) enable Pre-filter(s) disable Post-filter(s) eneable

Post-filter(s) disable

Alarms Setup

Alarms Enable Disable

Alarm type Energy Signal

Status Active Inactive

Trigger Always Per sweep Once

Events Single Multiple

Priority Low Medium High Critical

Energy detection schedule

Continuous Band Hourly Daily **Energy features** Energy Frequency Bandwidth Min Max Average Current Amplitude Min Max Average Current Duration Min Max Average Current

Number of intercepts Number of detections Occupancy % Intercept time First

Last Number of sweeps since first intercept Studio (user defined with AS9)

RFSK

Energy type
New energy
Once energy
Each energy
Any energy
No energy

Alarm tasks Handoff Visual Audible

Frequency snapshot Time snapshot Add to frequency list Remove from frequency list

Signal Processors

User-defined pane

Display

Display layout

Number of active layouts

Number of panes

Pane content types

Off

Trace A

Trace B

Trace C

Trace D

Handoff receivers

Handoff log Text editor

Command line Toolbar

New energy log Alarm log

Energy history Signal database Visual alarms

Frequency lists Feature studio

Trace

Number of traces

Trace type

Spectrum Spectrogram

Color spectrogram

Threshold presentation

Off Line

Mask

Grid type

Off.

Graticules Handoffs

Energy history Alarm regions

Frequency list

Grid frequency list

List 1-20

Marker

Off 0n

Handoff receiver link

Receiver 1-100

Handoff setup

Snapshot setup

Trace scaling

Number of independent traces

Maximum amplitude

Minimum amplitude

Minimum frequency

Maximum frequency

Trace mouse functions

Left mouse button

Off

Marker

Directed search band

Delta marker

Middle button

Drag and drop

Right mouse button

Trace scaling

Search receiver tuning Handoff new energy Handoff all energy

Trace color setup

Elements

Background

Trace

Marker

Grid

Labels

Threshold

Color layering order

Colors in color spectrogram

2-32

Default

General

Operating systems Windows 2000®

Control interfaces

GPIB RS-232

LAN VXI

Process-to-process communication Sockets (Requires AS9)

Number of antennas

16 (requires E1472A RF multiplexer)

Online, context-sensitive help system

Windows 2000 is a U.S. registered trademark of Microsoft Corporation.

Optional Software Features

35688D-AS9 User Programming

Option 35688D-AS9 allows users to extend the functionality of the E3238 and connect it to legacy systems. Extensions are written in C, and are dynamically linked into the E3238 as shared libraries. Software can be developed in Windows NT. Added functionality integrates seamlessly into the E3238 user-interface.

Shared library entry points
Socket interface
Spew interface
User menu
User pane (may require Motif™
programming)
User alarm task
Spectrum feature extraction
Energy history database pre-filter
Energy history database post-filter

35688D-ASH User Signal Programming

Option 35688D-ASH is an integrated software development environment to create, test, and deploy new signal types. Using a Programming Wizard, you can easily generate a working signal framework, and then drop in your own custom signal algorithms. The resulting program runs on a multi-processor VX008 DSP module, and is seamlessly integrated into the E3238 system. Using option 35688D-ASH, you can develop their own sensitive signals quickly.

35688D-ASM Feature Studio

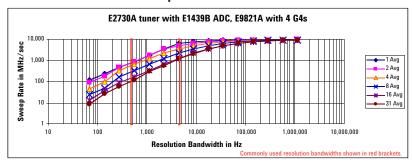
Option 35688D-ASM is a graphical program for creating complex-shaped upper and lower limit lines. It generates C code that is used with option 35688D-AS9 to implement limit lines to use as pre-filters in the E3238.

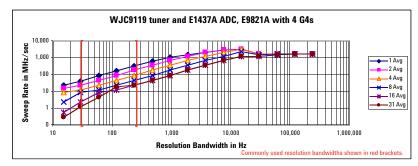
Specifications

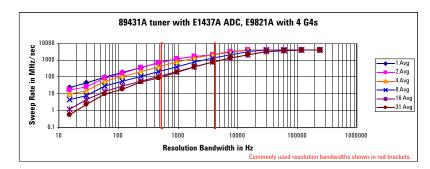
	HF	HF/VHF/UHF	VHF/UHF	VHF/UHF	μWave
Tuner/Digitizer	WJC9119/E1437A	89431A/E1437A	E2730A/E1439B	E2731A/E1439B	ComSol 5040/E1439E
Frequency range	0.1–32 MHz	2–2650 MHz	20–2700 MHz	20-6000 MHz	0.5–20 GHz
Useable IF bandwidth	6.75 MHz at 5.12 MHz IF	6 MHz at 5 MHz IF	36 MHz at 70 MHz IF	36 MHz at 70 MHz IF	36 MHz at 70 MHz IF
Tuner noise figure	13 dB, typical	14–15 dB, typical	11–12 dB, typical	16 dB typical	15 dB maximum
Tuner internally- generated spurious	-130 dBm, typical	N/A	-110 dBm, maximum	-110 dBm maximum	100 dBm maximum
RF input attenuationi	0–47dB, n 1 dB steps	0–75dB, in 5 dB steps	0–30dB, in 2 dB steps	0 - 30 dB in 2 dB steps	None
Tuner pre-selection	Yes	No	No	No	No
Tuner form factor	2 VXI C-1 modules	Rack and stack, 5.25"	1 VXI C-1 module	1 VXI C- module	1 VXI C-3 module
ADC residual - spurious responses	110 dBfs	-110 dBfs	-90 dBfs	-90 dBfs	-90 dBfs
ADC harmonic - distortion -	75 dBc or 110 dBfs	-75 dBc or -110 dBfs	-70 dBc or -90 dBfs	-70 dBc or -90 dBfs	-70 dBc or -90 dBfs
ADC form factor	1 VXI C-1 module	1 VXI C-1 module	1 VXI C-1 module	1 VXI C-1 module	1 VXI C-1 module
Operating temperature range	0–50° C	0–50° C	0–50° C (specified from 20–30° C)	0-50° C (specified from 20-30° C)	0–50° C

Benchmarks

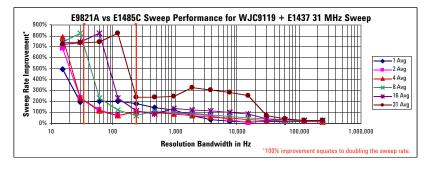
Sweep Rate Performance











Specification Note

Specifications describe warranted and benchmarked performance over a temperature range of 0° to 50 °C (except where noted), after a 30 minute warm up from ambient conditions. Supplemental characteristics identified as "typical" and "characteristic" provide useful information by giving non-warranted performance parameters. Typical performance is applicable from 20° to 30 °C. For more detailed specifications refer to the technical specification datasheets of the individual system components.

Support

Agilent Technologies products are available globally. The E3238 is a commercial product and is easy to buy, maintain, and obtain professional support services.

The E3238 arrives with everything pre-installed and ready to run. Because the E3238 is standards-based, your investment is protected. As technology ramps, so can your system.

Warranty

The hardware in the E3238 system is covered by a three-year return to Agilent Technologies parts and labor warranty. The software is warranted for 90 days. Additional coverage may be purchased from Agilent. Contact your local Agilent representative.

Ordering information

E3238S	E3238S signals development system
35688D	E3238S signals development system operating software
35688DU	E3238S Signals Development System software upgrade to current revision from earlier revisions
35688D-102	Standard E3238S software for Windows 2000 platform
35688D-AS9	User programming
35688D-ASM	Feature Studio
35688D-ASH	User signal processing
35688D-0RU	Software update installation planning

Export of the 35688 product identified in this literature is subject to U.S. Export control laws. Export licenses are approved on a case-by-case basis and sale of any of these products is dependent on approval of the United States Government.

Related Agilent Literature

Agilent Communications Intelligence Solutions Overview literature number 5988-0633EN

E3238 Signals Development System Configuration Guide literature number 5988-0562EN

E3238 Signals Development System Option ASH Product Overview literature number 5968-7077E

E3238 Signals Development System Product Overview literature number 5968-2075E

Test Systems and VXI Products Catalog literature number 5980-0307E

Visit Our Websites

Agilent Communications Intelligence Information www.agilent.com/find/COMINT

Agilent VXI Product Information — www.agilent.com/find/vxi

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