



Multi-Port Decimator D3

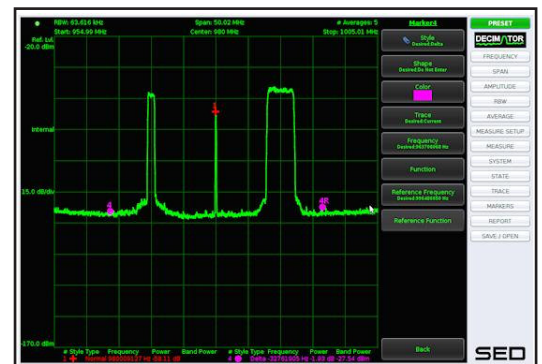
SED's Multi-Port Decimator D3 is a third generation spectrum measurement and analysis unit in a 1U chassis with an integrated 8-port RF switching capability. It is ideal for either local or remote monitoring of multiple feeds and carriers in satellite, cable or terrestrial wireless networks.



The Multi-Port Decimator D3 uses state of the art digital technology and Fast Fourier Transformations to make lightning fast and accurate measurements. With a very low noise floor and large dynamic range, it is well-suited to measure any type of satellite, cable or terrestrial wireless carrier, including very small carriers, beacon signals and for carrier monitoring applications. Decimator accepts all signals from 5 MHz to 3 GHz and input power levels ranging from -110 to $+5$ dBm. RBW varies from 1 Hz to 15 MHz. The Decimator can be connected to an external 10 MHz reference for improved frequency accuracy and stability. All data communications with the Decimator occurs via its built-in Ethernet port.

It can be installed anywhere, occupying only 1U in a standard equipment rack, allowing you to monitor up to 8 different feeds. This is ideal for a teleport, VSAT hub cable head end, cell tower or broadcast facility with multiple feeds to monitor. It is available with 75-ohm F-type connectors or 50-ohm SMA connectors on the inputs. It can also be provided as a 4-Port Decimator, which is the same unit limited to 4 operational ports, allowing expansion to the other 4 ports in the future if required. No need to install additional hardware.

The 8-Port Decimator's powerful Graphical User Interface (GUI) is available using any standard web browser. No additional software is required. The GUI is very easy to use and operates like most traditional spectrum analyzers. It provides user-selectable colors for markers and traces, allows storage of multiple traces and provides measurement reporting. The Decimator GUI also includes two powerful applications: The built-in **Carrier Monitoring** function provides notification via email or SNMP of carrier measurements that exceed user-defined limits, offering you peace of mind that up to 100 of your carriers are operating as expected. The 8-Port Decimator also includes a convenient **Cross-Pol Isolation** measurement function, allowing you to display both Co-Pol and Cross-Pol signals simultaneously, along with the isolation value.



The 8-Port Decimator provides network access to all technical staff connected to the facility network or a corporate wide area network. This allows all technical staff the ability to monitor feeds and carriers at any time and from any location in the world using only a web browser.

Buy Now!



Features

Overview

- 8 user selectable input ports
- covers full satellite L-band plus cable and wireless bands from 5 MHz to 3 GHz
- built-in Carrier Monitoring and Cross-Pol Isolation functions
- External 10 MHz reference or internal reference
- Web browser or API control
- SNMP status interface
- Standard 19" 1U Rack Mount Chassis
- available as 4-Port unit

Physical Interfaces:

RF Inputs:	8 x Type F, 75 ohms or 8 x SMA, 50 ohms
Control:	RJ-45
Reference:	BNC, 50 ohms
AC Power:	IEC 60320
Mechanical:	1.75"H x 19"W x 10"D

Certifications:

EMC/EMI:	EN 61326-1 FCC Title 47, Part 15
Safety:	EN 61010-1 UL 61010-1 CSA22.2 No. 61010-1

Private labelling, as well as custom designed versions supporting other frequency bands or form factors are available. Contact SED for more information.

Specifications

RF Input:

Input Frequency Range:	5 MHz to 3,000 MHz
Useable Dynamic Range:	-110 to +5 dBm (aggregate)
Noise Floor:	-150 dBm/Hz typical at min atten -130 dBm/Hz typical at max atten
Phase Noise: (worst case at 3 GHz)	-80 dBc/Hz at 1 kHz offset -95 dBc/Hz at 100 kHz offset -125 dBc/Hz at 1 MHz offset
Maximum Safe Input:	+10 dBm
Input Isolation (port to port):	45 dB (min)
Input Return Loss:	-15 dB (min)

Measurements:

Amplitude Accuracy:	± 0.5 dB (at 25°C) ¹ ± 1.0 dB (0 to 40°C)
Frequency Accuracy:	± 2.6 ppm (internal) or as per external
Frequency Resolution:	1 Hz
Resolution Bandwidth:	1 Hz to 15 MHz
Analysis Bandwidth:	up to 220 MHz
Spurious:	
Images:	< -55 dBc (typical)
Aliasing:	< -55 dBc (typical)
DC Offset:	< -30 dBc (typical)
Averaging:	up to 255 averages
Measurement Speed ³ :	
500 MHz span, 1 MHz RBW	200 ms
200 MHz span, 30 kHz RBW	630 ms
80 MHz span, 100 kHz RBW	170 ms
3.5 MHz span, 8 kHz RBW	90 ms

Other Specifications:

Reference Input:	10 MHz, -5 dBm to +13 dBm, +3 dBm to +13 dBm (auto-sensing)
Control Interface:	TCP/IP API, SNMP, HTTP
Power Requirements:	120/240 VAC, 50/60 Hz, 25W
Operational Temperature Range:	0 to 40°C

Notes:

1. Measurement conditions: 10 averages, input level between -8 dBm and -68 dBm, 3 sigma.
2. Resolution bandwidths auto or manual adjustable.
3. Expected rates with 10 averages, speed optimization.
4. All specification at 25°C unless otherwise noted and are subject to change without notice.



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