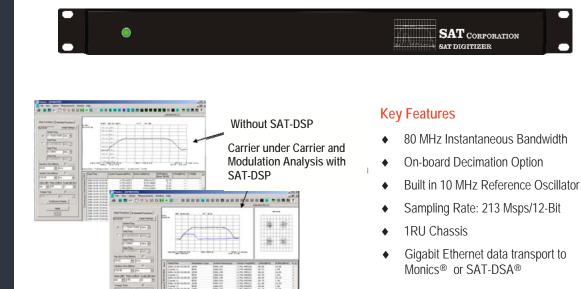
SAT-DSP-5000

High Speed Measurement Instrument



Overview

SAT Corporation's SAT-DSP-5000 instrument provides the latest in Digital Signal Processing by unlocking the full potential of the Monics[®] Carrier Monitoring and Interference Detection System. With 80 MHz of instantaneous bandwidth, an operator can analyze a full 72 MHz wide carrier and determine the modulation type, symbol rate, measured Eb/No and analyze any interfering signals lurking underneath.

Applications/Usage

The SAT-DSP[™] instrument is specifically designed as a measurement instrument to be used with SAT Corporation's Monics[®] and SAT-DSA[®] Satellite Carrier Monitoring and Interference Detection Systems. The SAT-DSP instrument can also be included as part of SAT's SigMon[®] RF Monitoring and Direction Finding solutions. The SAT-DSP instrument enables^{*}:

- Modulation and FEC Analysis
- Carrier Under Carrier Analysis
- Frequency Scan Analysis
- Spectrogram for TDMA analysis

* When operating with Monics[®] and/or SAT-DSA[®] systems



INTERFERENCE: DETECT.

SAT Corporation is a trusted global satellite communications monitoring, interference detection and geolocation company.

SAT Corporation's products, SAT-DSA®, Monics®, satID®, and SigMon® use patented algorithms, complex science and cutting edge technology to monitor all your satellite frequencies for Quality of Service; identifying anomalies, including interfering signals, and geolocation sources of interference. No one in the industry can match the speed or accuracy of our products and services.

SAT-DSP-5000

Ordering Information

Part numbers and descriptions: SAT-DSP-5010 High Speed SAT-DSP with SAT-DSP software with on-board decimation included

SAT-DSP-5000 High Speed SAT-DSP with SAT-DSP software

SAT-DSP-5000–HWR High Speed SAT-DSP Instrument (SAT-DSP Software not included)

SAT-DSP-OBD On-board decimation option (upgrades SAT-DSP-5000 to SAT-DSP-5010)

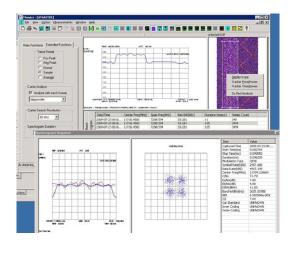
For more information on any of our

products or services please visit us on

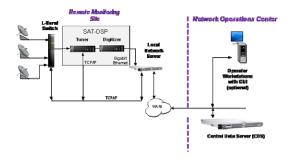
the web at: www.sat.com

Technical Specifications SAT-DSP-5000	
L-Band to 266 MHz Agile Down Converter	
Input Frequency	950 MHz to 2150 MHz
Output Frequency	266 MHz
Frequency Step Size	1.0 MHz
Gain	25dB Max.
Gain Adjustment	25dB Range in 1dB Steps
Noise Figure	15dB
Output Compression Point	10dB
Gain Stability	+/- 0.25dB over 24 hours
Spectrum Inversion	Non-Inverting
Digitizer	
IF Input/Output	266 MHz
Input/Output Power Level	-90dBm to -15dBm
Reference Input	10 MHz
Sampling Rate	213 Msps (Locked to Reference)
Data Interface	TCP-IP RJ45
SAT-DSP Chassis	
Physical Size	
Width	19" Rack Mount
Depth	14" (15" Populated)
Height	1 Rack Unit
RF Connector	SMA In and Out (50 Ohms)
Control Interface	TCP-IP RJ45
10 MHz Reference Output	BNC
10 MHz Reference Output Level	+12dBm
10MHz Reference Input Level	+3dBm +/- 3dBm
Power Supply	
AC Supply	100 – 240 V AC, 50/60 Hz
DC Output	250W (MAX)
Fuse Rating	6.3 A/250V

The operating temperature range for all assemblies is 0 to 50°C.









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