Wideband Systems, Inc.

www.wideband-sys.com

Wideband Systems, Inc.
2409 Linden Lane
Silver Spring, MD 20910
301-588-8840 Voice
301-588-8832 Fax

Wideband Systems, Inc.
Wideband Analog Signal Recorder

Wideband Systems is pleased to offer a Wideband Analog Signal Recorder. The robust and reliable **DRS3300-XXGB-1CHA2** is a disk-based recorder which fully integrates a 200 MByte/sec sustained recorder/reproducer with a high-speed analog-to-digital and digital-to-analog conversion interface.

The recorder accepts a single analog signal on a BNC connector and presents a single analog signal on an output BNC connector. The A/D conversion can be user-configured for 8-bits with a maximum sampling rate of 200MHz or 10-bits with a maximum sampling rate of 150 MHz. For baseband 8-bit applications the system can record a signal with an analog bandwidth of upto 100 MHz (at Nyquist). Alternative sampling approaches are available including IF bandpass sampling; for specific configurations please contact the factory.

The **DRS3300-XXGB-1CHA2** has excellent time stability due to an internal OCXO reference. In addition to the high speed analog channel the system can accept an auxiliary timing signal (IRIG-B) which can be used to time-tag the recorded data. Playback can be commanded to start from a specific time to facilitate signal analysis. Details of the Wideband Analog interface are presented in the following table:

A/D Amplitude Quantization	8-bits or 10-bits
Sample Rate (8-bits)	OFF, 25, 50, 75, 100, 125, 150, 175, 200 MSPS
Sample Rate (10-bits)	OFF, 25, 50, 75, 150 MSPS
Signal Coupling	AC (transformer coupled)
Input Voltage	1.6V p-p
Input Impedance	50 Ohms
Output Voltage	0.6 V p-p
Output Impedance	50 Ohms

The **DRS3300-XXGB-1CHA2** is a 3U rackmount instrument weighing 45 pounds. The recorder employs nine high-performance SCSI 10K RPM disk drives (72GB, 144GB, or 300GB each). The record time is a function of the disk capacity and the aggregate recording rate; at maximum rate (200MB/sec) the recorder will continuously record/reproduce for 54, 108 or 216 minutes.

The recorder can be locally controlled by the intuitive front panel (REC, STOP, PLAY), remotely controlled using a simple RS-232 command line protocol, or remotely controlled across a network (web server). Additionally, the recorder supports archiving to optionally supplied AIT3, LTO, SATA drives and supports direct transfers to SCSI-equipped PC workstations.

Ordering Information	
DRS3300-72GB-1CHA2	Single Channel Wideband Analog Recorder -- 648GB Total Capacity
DRS3300-144GB-1CHA	Single Channel Wideband Analog Recorder -- 1296GB Total Capacity
DRS330E-300GB-1CHA2	Single Channel Wideband Analog Recorder -- 2700GB Total Capacity