



RDA-301 DECL/A12 RECORDER

The DRS Signal Recording Technologies Model RDA-301 DECL/A12 Recorder provides the capability to record or play back two 16-bit parallel differential ECL (DECL) channels or two 12-bit analog channels. The system provides the capability to store recorded files in a large disk library protected by a redundant array of independent disks (RAID). Recorded data may be directly accessed through the open Linux operating system or via Gigabit Ethernet network file access using file transfer protocol

(FTP), a network file system (NFS) or Windows (Samba). The RDA-301 features up to 36 TBytes of storage.

- Dual-channel DECL and analog recorder
- Records or plays back two 16-bit DECL channels
- Records two 12-bit analog channels
- Plays back two 14-bit analog channels
- Open Linux Operating System

RDA-301 HIGHLIGHTS

- Dual-channel DECL and analog recorder
- DECL Interface
 - Capable of recording or playing back 100K ECL data
 - Lock rates up to 100 MHz
- Analog A/D-D/A Interface
 - 12 bit Analog/Digital Converter
 - 14 bit Digital/Analog Converter
 - Switchable 8-, 10-, 12-bit resolution
 - Record/playback BW up to 100 MHz
- RAID disk architecture for maximum data integrity
- Up to 36 TBytes of storage
- Open Linux operating system
- FTP and NFS file access
- 3U, 5U or 8U tall 19-inch rackmount chassis



SYSTEM CAPABILITIES

Analog Interface	8-, 10-, 12-bit resolution Up to 200, 150, 100 MSPS - Dynamic Range >46, 52, 58 dB
Input/Output BW	0.3 to 100 MHz (3 dB)
DECL Interface	
Technology	100K ECL
Width	1-16 bits
Speed	Up to 100 MHz
Storage System	Up to 36 TBytes RAID protected storage with peak performance up to 800 MB/S
Operating System	Linux 64-bit, QT Graphics Library
Processors	Two dual-core AMD Opteron processors
Network Access	Gigabit Ethernet NFS, FTP and Windows (Samba) access

SWAP

19-inch Rackmount Options

28-inch x 3U, 83 lbs., 600 Watts
28-inch x 5U, 126 lbs., 800 Watts
28-inch x 8U, 190 lbs., 1250 Watts

Temperature	5 °C to 40 °C
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ORDERING OPTIONS

Part Number	Description
RDA-301-3U-1T	DECL A12 Recorder with 14 TB Storage and two 100 MHz DECL I/Os. Includes 3U server chassis with 14 TB of storage (16 - 1 TB SATA disk drives). Note 1
RDA-301-5U-1T	DECLA/A12 Recorder with 22 TB Storage and two 100 MHz DECL I/Os. Includes 5U server chassis with 22 TB of storage (24 - 1 TB SATA disk drives). Note 1
RDA-301-3	DECLA/A12 Recorder with 36 TB Storage and two 100 MHz DECL I/Os. Includes 8U server chassis with 36 TB of storage (40 - 1 TB SATA disk drives). Note 1

Note 1: Also includes two 16-bit DECL or 12-bit analog channels, two dual-core Opteron processors and a simple GUI to control record and playback. Interface cables for DRT DIM Module provided.



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