





DESCRIPTION

Ultra Wideband Digital Recorder

The DRT5250B Ultra Wideband Digital Recorder is a portable data recording system designed to meet a wide range of applications. Both rotating disk and solid state storage are available and the unit supports several modular input / output options.

- Record / Playback Bandwidths up to 500 MHz
- Two Front Panel Removable Storage Packs
 - Rotating Disk Storage: 2.4 TB or 8 TB per pack
 - o Solid State Storage: 2.0 TB per pack
- 1600 MB/sec maximum system throughput
- Modular Input / Output Modules
 - 1 Ultra Wideband Analog 500-MHz Bandwidth @ 1 GHz I/O Module, or
 - 1 or 2 Universal IF Analog I/O Module, or
 - 1 or 2 Dual Channel DECL I/O Module
- Eagle Recorder Remote GUI Control via Ethernet
- Front Panel Display and Control
- Built-in GPS Receiver with Antenna Input

Specifications

Size	2U System: 3.5 in H x 14.5 in W x 14.5 in D (8.9 cm x 36.83 cm x 36.83 cm)
Weight	With Rotating Media: 25 lbs (11.3 kg) With Solid-State Drive: 20 lbs (9.1 kg)
Power	With Rotating Media: 235 W, 110/220 VAC With Solid-State Drive: 165 W, 110/220 VAC
Solid State Storage	2.0 TB storage per pack
Rotating Disk Storage	2.4 TB or 8 TB storage per pack
Recording Time	Recording Time varies with the type of DRT system modules and type/number of storage packs.
	With Two 2.4 TB Rotating Disk Storage Packs:
	DIM1B with RFT3/RFT4 - Up to 6.94 hours for 40-MHz wide band
	With Two 8 TB Rotating Disk Storage Packs:
	DIM1B with RFT3/RFT4 - Up to 23.1 hours for 40-MHz wide band
	With Two Solid State Storage Packs – 2 TB each:
	DIM1B with RFT3/RFT4 - Up to 5.78 hours for 40-MHz wide band
Operating Environment	Temperature: +32° to +140°F (0° to 60°C) Humidity: 5 to 90%, non-condensing Altitude: up to 10,000' (3048 m)
Non-Operating Environment	Temperature: -4° to 158°F (-20° to 70°C) Humidity: 5 to 90%, non-condensing Shock & Vibration: MIL-810F for shipping via ATV, military air and helicopter within transit case

Input / Output Module Options

The DRT5250 will support one 500 MHz Ultra Wideband Analog I/O module or, one or two of the Universal IF Analog or DECL I/O modules in any combination.

500 MHz Ultra Wideband Analog I/O	Supports recording of a 500-MHz Bandwidth Signal @ 1 GHz IF via 1.333 GSPS, 8-bit A/D Supports playback of a 500-MHz Bandwidth Signal at 1 GHz IF via 1.333 GSPS, 12-bit D/A
Universal IF Analog I/O	Supports Record and Playback of Analog IF at 21.4 MHz, 70 MHz, 140 MHz and 160 MHz with signal bandwidth of 10 MHz, 40 MHz, 60 MHz, and 80 MHz respectively. Record via 14-Bit A/D, Playback via 16-bit D/A
DECL (Dual Channel) I/O	Capable of recording and playback 16-bit DECL data Clock rates up to 100 MHz (Compatible with DRT1000C/DIM1B)

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