



EAGLE XPRESS RECORDER

The Eagle Xpress is a portable data recording system designed to meet a wide range of applications. It contains state-of-the-art hardware and software components designed to capture high bandwidth SIGINT signals as well as high-performance radar, satellite, telemetry, instrumentation and image data. The Eagle Xpress is a modular system that supports removable disk and solid state storage media. It also supports a wide variety of onboard I/O and removable I/O modules.

With sustained recording rates up to 1600 MBytes/Sec and 2 TBytes of removable storage, the high-performance Eagle Xpress is useful for many recording applications. These include 500 MHz pre-detection analog and digital IF recording. Other uses include system validation, simulation, training, and signal library development.

EAGLE XPRESS HIGHLIGHTS

- Two front panel removable storage packs
- Two modular I/O slots
- 1600 Mbytes/Sec system throughput
- 2U mobile/hand carry recording system
- DRS Turnkey Recorder Interface
 - Ethernet control with supplied GUI
 - Front panel display and GUI control
- PCI Express expansion port for the addition of external I/O, storage or tape subsystems



SYSTEM CAPABILITIES

Flexible I/O	Up to 2 co-resident, self-identifying I/O modules, swappable by user
	Built-in GPS receiver with antenna input
	Voice input
System GUI	GUI control via Gigabit Ethernet
	Front Panel Display and Control
Storage Options (two storage packs per option)	Disk (EDX-SPD-1150A): capacity: 1.15 TBytes each speed: 400 Mbytes/Sec.
	Solid State (EXX-SPF-1000A): capacity: 1.0 TBytes each speed: 800 Mbytes/Sec.
	Solid State (EXX-SPF-1000B): capacity: 1.0 TBytes each speed: 500 Mbytes/Sec.

ENVIRONMENT

Operating	0 °C to 60 °C
	Maximum rate temperature change is 5 °C/minute
Humidity	5% - 90% non-condensing
Altitude	Less than 10,000 feet
Non-Operating	-20 °C to 70 °C
Humidity	5% - 90% non-condensing
Shock and Vibration	MIL-810F, for shipping via ATV, military air and helicopter within transport case

I/O MODULE INTERFACES (OPTIONAL)

500 MHz Ultra Wideband Analog I/O EXX-MOD-UWB-500A	Records a 500 MHz BW signal at 1 GHz IF
	Plays back a 500 MHz signal at 1 GHz IF
200 MHz Ultra Wideband Analog I/O EXX-MOD-UWB-200A	Records a 200 MHz BW signal at 140 MHz IF
	Plays back a 200 MHz signal at baseband
DUAL DECL MODULE EXX-MOD-DDM	DRTi DIM compatible
	Records or plays back 100K ECL data
	Clock rates up to 100 MHz
Serial Optical - sFPDP (future)	Serial Front Panel Data Port
	VITA 17.1 Optical
Universal IF Analog Wideband I/O (future)	Records and plays back up to 240 MHz BW signal at 160, 140, 70 and 21.4 MHz IFs using 500 MSPS, 12-bit A/D
SWAP	
Size	2U System (with 19-inch rack mount options)
	3.5 x 14 x 14 inches
Weight	25 lbs. (storage packs 5 lbs. each)
Power	Modular 215 Watt power supply options include:
	110/220 Vac
	12 Vdc & 28 Vdc (future)



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