

Digital Recorder Model·No: JC-SMTP-REC11



The Digital Recorder has varying sustained record & Play back Aggregate data Rates, storage capacity & Interface Board (IFBs). The Digital recorder Provides high quality real-time dynamic signal monitoring function in record or idle mode. The Digital Recorder is required to record analog demodulated baseband signals, AGC signals and data/clock signals from Receivers with bit-synchronizer and with IRIG-B time during mission.

These signals are recorded in real time on Solid State Media in digital form and replayed back later for analysis.

Applications

- Realtime data acquisition, recording and playback
- Telemetry data acquisition and storage

Features

- Can record anlog, digital and PCM streams from telemetry receive chain
- Can be used as a generic data acquisition and logging system with optional replay







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Technical Specifications

Functional	
No of Record & Reproduce Channels	5-Analog Channels
	 2-Baseband signals up to 1MHz 2-AGC signals up to 40KHz 1-IRIG-B AC Code up to 1KHz
	 4 Digital Channels 2 PCM Channels 1 data and 1 clock signal per channel : bit rate up to 1 Mbps
Signal Level	Single ended Analog: 8V pk-pk Single ended TTL: 0-5V
Signal Rate	High speed Analog channels: 1X2.5 -> 2.5 MHz
PCM Channel	Digital PCM channel: 10MHz
Clock Source	Internal
Clock Format	Data + Clock mode synchronous to rising or falling edge of data
Mode	Record, Replay
Coupling	AC/DC Coupling for High-speed Analog signals
Impedance	$50\Omega/1M \Omega$ Selectable 100pF for High-speed Analog signals
Resolution	≥ 8 bits
Sampling Rate	Minimum 2.5 times of BW for analog channels
Drive Type and Capacity	 Two removable Solid State Disks (1TB each) connected in RAID 1, capacity 1TB. Disk Interface: SATA One SSD 1 TB for OS & Application GUI S/W Storage. Disk Interface: SATA External USB Hard Disk 1TB for external data transfer for backup
• Outputs	 Analog: 5 No's Resolution: ≥8 bits Signal Level: More than ±5V peak to peak, DC Coupled Impedance: 0.1 ohm Digital: 4 No's Output Signal: Data + Clock Clock rate: Identical to input Clock rate Clock format: Identical to input Clock format Signal level: Single ended TTL for all data, Clock 01-Time Channel (Modulated IRIG-B coded)
Networking Connectivity	Ethernet 100/1000 Mbps, Ethernet network connectivity for easy file access
Interfaces	SATA, USB for Storage
Electrical	
Operating Voltage Range	230V±15V AC, 1 Phase, 50 Hz
Rated current	1.5 Amp Max
Mechanical	
Recorder System	W 482 mm X H 177 mm X D 530 mm
Rack Mount Keyboard	W 482 mm X H 44 mm X D 300 mm
Weight in Kg	<25kg
Environmental	
Temperature	
Operating	-20 °C to +55 °C
Storage	-25 °C to +65 °C
Environmental Compliance	JSS-55555 / MIL 810D
EMI/EMC Compliance	MIL-STD-461E

