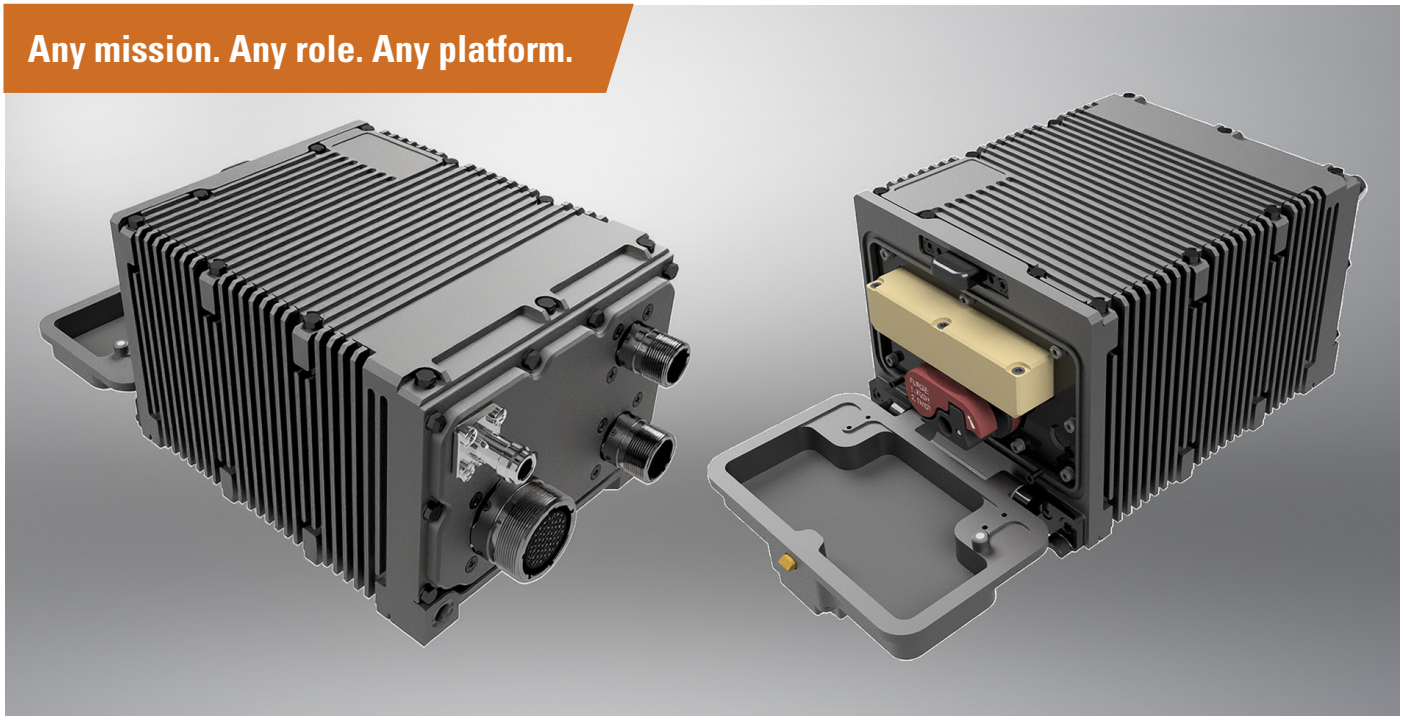
GENERAL DYNAMICS
Mission Systems

Secure Data Recorder

An Adaptable, Secure, Electronic Data Storage Solution

Any mission. Any role. Any platform.



The General Dynamics Mission Systems Secure Data Recorder (SDR) products are designed specifically for the challenges of sensitive data protection in harsh environments to safeguard critical information.

Our Secure Data Recorder is the only UK National Cyber Security Centre accredited storage device for airborne platforms.

A low Size, Weight and Power (SWaP) secure storage solution to meet the emergent requirements of data protection in harsh environments.

The recorder architecture supports deployment across military and commercial recording applications, subject to customer-specific configuration.

Features:

- Low SWaP secure storage solution
- Commercial Off-the-shelf (COTS) product for easy integration
- Ultra high volume storage capacity
- Multi lane HD data rates supported
- High grade encryption mechanisms
- Enables both recording and network storage functions
- Supports a wide range of interface and control options
- Designed with specialised hardware encryption for use in high demanding role

Technical Information

Specifications

Video inputs	HD Video over IP
Video compression	H.264 Encoded Compression MPEG-4 Compression Up to 4 channels of HD at 1080p30 Up to 2 channels of HD at 1080p60
Dimensions	122 x 159 x 165 mm
Weight (Kg)	3.75 to 3.95
Power supply	28v DC supply
Power dissipation (W)	20.6 to 30 (typically 25)
Encrypted memory capacity	4TB - 40TB (170TB in development)
Maintenance data memory	Up to 1GB
Primary control interface	RS422 or via Ethernet
Erase	Dedicated discrete and manual purge button (< 100ms)
Generic interfaces	Gigabit Ethernet (copper and fibre) USB 2.0/USB 3.0 RS 232/422 Configurable discretes Operational control via Ethernet or serial Recording of data from Serial and Video over Ethernet Event marking of recorded data User defineable compression rates
Mounting	Tray or Dzus
Logical interfaces	FTP, NFS, NTP, SNMP, RTP, MPEG transport, DDS, Audio over IP
Security	Available on request
Cooling requirements	Radiation and conduction cooling through case and fixings
Operating temperature	-40°C to +70°C (-40°F to +158°F)
Storage temperature	-55°C to +85°C (-67°F to +185°F)

Certifications

Qualification	RTCA DO-160
Vibration limits	Section 8
Shock limits	Section 7
Acceleration	Section 7
Temperature and altitude	Section 4
Humidity and solar	Section 4 and 6
Sand and dust	Section 12
Temperature variation	Section 5
EMC	Sections 15 to 22
Software certification	RTCA DO-178C - Certifiable up to level D
Hardware certification	RTCA DO-254 - Certifiable up to level D
Additional qualification	DEF-STAN 00-35 DEF-STAN 59-411 MIL-STD 704

The product described here represents a general configuration of this family of products. Specifications are configurable for specific customer requirements. Export classifications are configuration dependent and information contained within this data sheet does not constitute an export classification determination. For pricing and availability, interfaces, bezel buttons, casings, connectors and other information, please contact your General Dynamics representative.

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