



GE Aerospace

JEDAI

Joint Electronic Data Acquisition Interface

The next generation data recording system

GE Aerospace is the world leader in the design, development, and production of reliable solid-state crash-survivable cockpit voice and flight data recorder systems. Joint Electronic Data Acquisition Interface (JEDAI) is a drop-in replacement for the F-16, F-15 or C-17 Crash Survivable Flight Data Recorder and the USAF Standard Flight Data Recorder. The JEDAI combines data acquisition and enhanced crash survivable memory in a single line replaceable unit that provides enhanced versatility, small size, low weight, and adaptability to a wide range of customer information management needs.

JEDAI incorporates open architecture and commercial standards into a design that supports ease of software and hardware tailoring to meet specific customer acquisition, processing and recording requirements. JEDAI acquires, processes and stores data from a wide range of analog, digital and bus sources. JEDAI provides adaptable interfacing and functionality with significant acquisition, processing and recording growth. It integrates a 10 Gigabyte (GB) Crash-Protected Memory compliant with ED-112A crash survivability requirements. Optionally, a 90-day underwater locator beacon may be mounted to the outside of the JEDAI. The JEDAI complies with the ED-112A recorder crash survivability requirements and supports future growth.

Capabilities

- Incident Investigation
- Aircraft Structural Integrity Program (ASIP)
- Engine Structural Integrity Program (ENSIP)
- Operations and mission management
- Integrated Vehicle Health Monitoring (IVHM)
- Prognostics and Health Management (PHM)
- Flight Operation and Quality Assurance (FOQA)
- Training



Specifications

Physical Characteristics

6.2 × 7.4 × 7 inches
13 lbs (not including beacon)

Audio Interface

Three low-band channels
One high-band cockpit area mic
Audio monitor (output)

Analog/discretes

AC/DC differential inputs
Frequency inputs
Configurable I/O discretes
Ratiometric
Synchros
LVDT
Strain gauges

Digital I/O

MIL-STD-1553B
Ethernet 10/100 Base T
ARINC 429
RS-422/485
ARINC 717

Input Power

+28 VDC/115 VAC

Certification

EUROCAE: ED-112a
(survivability)

Qualifications

Environment: MIL-STD-810
MIL-STD-461D
MIL-STD-5400
MIL-STD-704A

Ground Support Equipment

GE's extensive toolsets minimize the cost of configuring and operating recorder systems:

- Rapid data download is accomplished with a PC
- Recorder configuration is performed by the OEM using a PC-based tool to select the desired parameters, storage, exceedance checks etc.
- Replay and animation software supports data analysis and investigations



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