

SOLID STATE QUICK ACCESS RECORDER



SSQAR 200-E10-2XXX

Confidence and efficiency of flight data analysis highly depend on access and reliability of in-flight recorded data. This latest technology, Quick Access Recorder, solves the practical problems of retrieving data for true operational value.



Flight Data Vision Quick Access Recorders are designed using the latest storage technologies and electronic concepts to provide a highly reliable recorder that is simple to install and operate. The 200-E10-2XXX is designed with flexibility and expandability in mind.



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Key Features of the SSQAR

- ▶ 800gr (1.76lb)
- ▶ 6 watts typical consumption
- ▶ 8 to 32GB removable SDHC
- ▶ 1 Opto-Isolated ARINC573/717 input
- ▶ 8 Opto-Isolated ARINC429 input
- ▶ 16 x Discrete inputs
- ▶ 2 x Fault Discrete outputs
- ▶ 3 x Ethernet ports
- ▶ Run Control to trigger data recording and data transfer using Discrete inputs

Installation :

The SSQAR has been designed to simplify installation and location onboard the aircraft. Attachment directly to the airframe in any orientation eliminates any additional mounting tray. The unit comes with a standard MIL-C-38999 Series main connector and a MIL-C 38999 Series I secondary connector.

Recording :

The units feature high-speed recording functions that are able to write data to a removable solid-state memory module from multiple monitored interfaces. Memory modules are available in many sizes up to 32 GBytes

Read Out :



Using SDHC concept eliminates the need for a specialized and expensive download unit: Reading out recorded flight data parameters utilizes the actual PC Card drive of the computer running standard Windows© operating systems.



In addition, Ethernet ports are available to manually retrieve recorded flight data from the front panel of the unit or from any part of the aircraft using a remote connector connected to the rear connector of the unit.



This unique Ethernet feature may also be used to connect the unit to:

- A WI-FI access point to manually retrieve recorded flight data
- A cellular or broadband unit to automatically transfer recorded flight data to a remote FTP data server (valid upload condition is determined by discrete inputs state that are customer configurable)



Configuration :

The SSQAR is easily configurable and modular. Customer can set up its flight data acquisition program as well as Ethernet configuration and remote FTP data server configuration on its computer and generate a configuration file. This configuration file is then uploaded to the SSQAR using a SDHC.



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OUTLINE SPECIFICATION

Dimensions	Overall length: 187mm Overall width: 141mm Overall height: 51mm
Weight	800gr (1.76lbs)
Color	Black
Case Construction	Aluminium housing
Power Supply	28 VDC
Power Consumption	Typical 6W – Power Up 11.5W
Main Connector	MIL-C 38999 Series I, 55-pin
Secondary Connector	MIL-C 38999 Series I, 21-pin
Cooling	Free air convection. No forced cooling required
Aircraft Interfaces (main & secondary connectors)	1 ARINC 573/717 Bi-Phase or Bi-Polar Opto-Isolated input line – Data Stream Auto-Detecting up – up to 2048 wps 8 ARINC 429 Opto-Isolated Input lines, High or Low speed – Label Filtering – Label Sampling (1, 2, 4, 8Hz or all) 16 Discrete Input lines (6 Shunt & 2 Series) 2 Fault Discrete Output lines (System Fault & SDHC/Record Fault) 2 Ethernet 100 Base-T line (Internal Webserver access, Data files retrieval & Data files transfer)
User & Maintenance Interfaces	1 Memory card slot for SDHC 1 RJ45 connector for 1 Ethernet 100 Base-T line (Internal Webserver access & data files retrieval) 1 USB type B connector (for maintenance & troubleshooting)
Mounting Installation	Four anchoring clamps
Storage Media	SDHC class 10 industrial grade, 8, 16 or 32 GB (limited to 1000 data files)
Recording Capacity	3000 flight hours at 512wps
Temperature	Operating: -40°C to +85°C Storage: -55°C to +85°C
Environmental Qualification	DO160G
Software Qualification	DO178 level D DO254 level D
MTBF	10,000 hours
Readout	H/W: Standard PC with SD drive S/W: PGS 100-0X00 software or third party flight data monitoring software
Configuration	Uploadable customer's flight data acquisition program