

SIU

SYSTEM INTERFACE UNIT



ANALOG INTERFACE
FOR FIGHTER AIRCRAFTS

REDUNDANT
OPERATION

FIGHTER AIRCRAFT
QUALIFIED



SIU

SYSTEM INTERFACE UNIT

SIU collects various analog platform parameters, translates them to digital and presents to use of pilots. Generates analog driving signals that are commanded by mission equipment.

With its reliable and rugged design, SIU meets Fighting Falcon's harsh environmental requirements.

General Specifications

- Internally Redundant
- Analog Interface for Aircraft Systems
- Digital Interface for Mission Systems

Technical Specifications

- Dual Redundant 28VDC Power Input
- Dual Redundant Power Supply
- Dual Redundant EICAS Operations
- Fuel Quantity Measurement
- Fuel Flow Rate Measurement
- FTIT Measurement
- RPM Measurement
- Nozzle Position Measurement
- Engine Oil Pressure Measurement
- Hydraulic Pressure Measurement
- Heading Angle Generation
- Analog Video Crosspoint Switch
- Aural Warning And Caution Generation

Interfaces

- Fuel Quantity Measurement Interface
- FTIT Interface
- RPM Interface
- Synchro Input / Output Interfaces
- Audio Interface
- Analog Video Input / Output Interfaces
- Discrete Signal Input / Output Interfaces
- RS-485 Interfaces
- WMUX Interfaces
- MIL-STD-704A 28VDC Power Input

Qualifications

- MIL-STD-810F / DO-160E
- MIL-STD-704A
- MIL-STD-461E

Environmental Conditions

- Operating Temperature and Altitude:
-40°C / +55°C, continuous
+71°C, 30 minutes
31.000 ft.
- Storage Temperature and Altitude:
-55°C / +85°C
55.000 ft.

Physical Specifications

- Dimensions : 354 mm (H) x 287 mm (W) x 160 mm (D)
- Weight : <10 kg