

ADEN | IMD 820

INTEGRATED MODULAR DISPLAY

#Avionics



REDUNDANT 2 SIDE LARGE TOUCH SCREEN
SMART AND DIGITAL MAP CAPABILITIES
SINGLE LRU COMPACT DESIGN



aselsan

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INTEGRATED MODULAR DISPLAY

Integrated Modular Display (ADEN IMD 820) is a large area multifunction display and VPX compatible mission computer. ADEN IMD 820 has 8"x20" display area with IR touch-screen capability. ADEN IMD 820 controls the avionics systems and generates flight/mission graphics and performs video overlays onto a dual redundant, separately addressable, two left and right 1280x1024 resolution half displays via one 2560x1024 resolution AMLCD.

ADEN IMD 820 is a large area multifunctional display which operates as a mission computer and display system packaged into one Line Replaceable Unit (LRU). ADEN IMD 820 has the capability to display sensor video, digital map and tactical symbology to Pilot. No single failure in the ADEN IMD 820 will render both the left and the right displays unusable.

ADEN IMD 820 has capability to display video, graphics, video with graphics overlay, split screen video/graphics and split screen graphics/graphics.

ADEN IMD 820 provides primary display of flight and cockpit management information and digital map capabilities for the operator with the capability of selection of various display page formats via touch-screen or control panel.

ADEN IMD 820 support the analog and digital input/output interfaces, USB 2.0, Ethernet and MIL-STD-1553 interface. The Ethernet interface also allows operational software modification.

ADEN IMD 820 includes the Display / Mission Management Operational Flight Program (OFP), i.e. software which performs complete display and mission management functions and subsystems control functions for avionics systems to be interfaced with ADEN IMD 820.

General Specifications

- Digital Map Capabilities
- Redundant 2 Side Display
- Touch-screen Interface
- High Resolution
- High Luminance
- Wide Dimming Range
- Wide Viewing Angle
- NVIS Class A and B Compatible
- Software update through Ethernet
- Single LRU Compact design
- Easy to Integrate

Interfaces

- MIL-STD-1553 Interface
- ARINC 429 Interface
- Serial Interface (RS-232/RS-485/RS-422)
- Ethernet (10/100/1000 Mbps) Interface
- Discrete I/O Interface
- USB 2.0 Interface
- Audio Output Interface
- ARINC-708 Input Interface
- DC Analog Input Interface (0-5 VDC)
- Display Port Digital Video I/O Interface
- HD-SDI SMPTE-292 Digital Video Input Interface
- RS-170 Analog Video Input Interface

Physical Specifications

- Dimensions : 277 mm (Y) x 571 mm (G) x 212 mm (D)
- Weight : <24 kg

Technical Specifications

- Input Power : 28 VDC
- Power Consumption : 308W (Nominal)/ 521W(Maximum)
- Power Storage for Short Time Power Loss
- Display Type : Color Active Matrix Liquid Crystal Display
- Display Area : 8" x 20" (2x8"x10")
- Resolution : 2x1280x1024
- Display Color : 16.2 Million Colors
- Viewing Envelope : +/- 40° Horizontal +30/-15° Vertical
- Luminance Range : 0.03 fL - 240 fL
- NVIS Compatibility : MIL-STD-3009, Class B

Environmental Conditions

- Operating Temperature and Altitude : -40°C / +65°C, 20,000 ft
- Storage Temperature : -55°C / +85°C

Qualifications

- MIL-STD-810G
- DO-160G
- MIL-STD-704F



Specifications are subject to change without any notice. | All tolerances are within ±10%.