

IMD-820

INTEGRATED MISSION DISPLAY

REDUNDANT 2 SIDE LARGE
TOUCH SCREEN

SMART AND DIGITAL MAP
CAPABILITIES

SINGLE LRU
COMPACT DESIGN





IMD-820

INTEGRATED MISSION DISPLAY

Integrated Mission Display (IMD-820) is a large area multifunction display and VPX compatible mission computer. IMD-820 has 8"x20" display area with IR touch-screen capability. 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.

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

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

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.

IMD-820 support the analog and digital input/output interfaces, USB 2.0, Ethernet and MIL-STD-1553 interface. The Ethernet interface allows operational software modification without removal of the system from the installed position.

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

General Specifications

- Display Port 1.1A Digital Video Inputs
- Display Port 1.1A Digital Video Output
- Analog Video Input
- SMPTE-292 HD-SDI Video Input
- Ethernet Interfaces
- USB 2.0 Interfaces
- Digital Map Capabilities
- Redundant 2 Side Display
- High Resolution
- High Luminance
- Wide Viewing Angle
- Wide Dimming Range
- NVIS Class A and B Compatible
- Software update through Ethernet
- Touch-screen Interface
- Redundant Display Control Panel
- Single LRU Compact design
- Easy to Integrate

Display Specifications

- 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

Interfaces

- Communication Interfaces: MIL-STD-1553, ARINC-429, ARINC-708, Ethernet, USB 2.0, RS-422, RS-485, RS-232, discrete and analog interfaces
- Video: Display Port 1.1A Digital Video, HD-SDI SMPTE-292 Digital Video, RS-170 analog Video
- Input Power: 28 VDC

Qualifications

- MIL-STD-810
- MIL-STD-461
- RTCA DO-704

Physical Specifications

- Dimensions: 277 mm (H) x 571 mm (W) x 217 mm (D)
- Weight: < 24 kg

