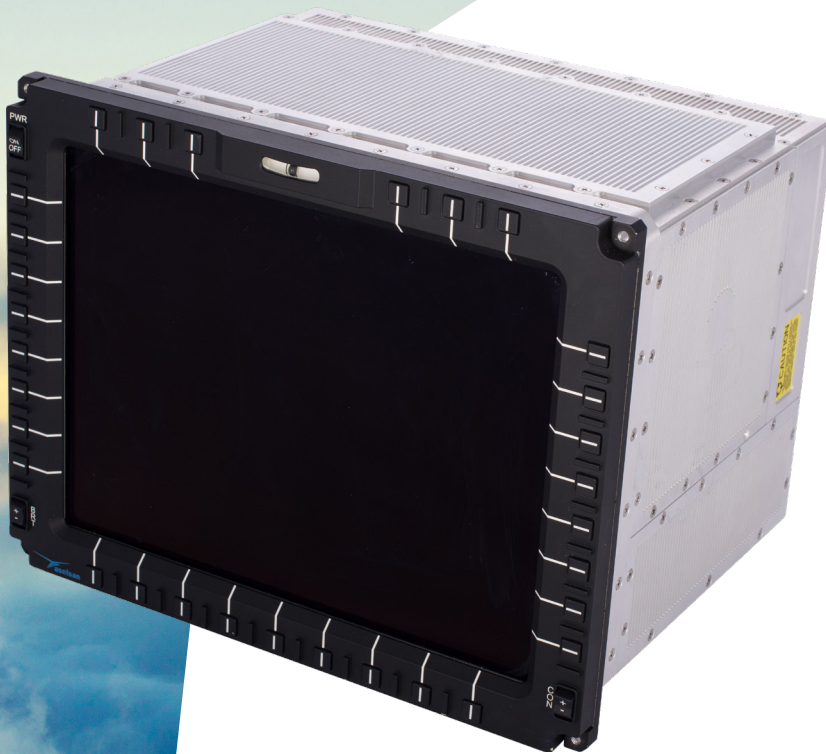


# ADEN | SMFD 810

SUPER MULTIFUNCTION DISPLAY

#Avionics



7.3" x 9.7" AMLCD ACTIVE DISPLAY AREA  
1360 x 1024 RESOLUTION  
SMART MFD & DIGITAL MAP CAPABILITY



**aselsan**

# ADEN | SMFD 810

## SUPER MULTIFUNCTION DISPLAY

Super Multifunction Display (SMFD-810) is a multifunctional display which operates as a mission computer and display system packaged into one Line Replaceable Unit (LRU).

ADEN SMFD 810 incorporates a 8" x 10" inches AMLCD display, multiple Single Board Computers, internal graphics generation, video and I/O processing capabilities and bezel mounted controls including a bezel mounted slip-skid indicator. ADEN SMFD 810 has the capability of generation of display formats, using data obtained from system interfaces to the ADEN SMFD 810. ADEN SMFD 810 has capability to display video, graphics, video with graphics overlay, split screen video/graphics and split screen graphics/graphics.

ADEN SMFD 810 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 bezel mounted function keys.

ADEN SMFD 810 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.

SMFD-810 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 ADEN SMFD 810.

### General Specifications

- Ethernet Loading
- Digital Map Capabilities
- High Resolution, Wide Viewing Angle, Wide Dimming Range
- NVIS Class A and B Compatible
- User Configurable Bezel Keys, Bezel Mounted Inclinometer
- Single LRU Compact Design, Easy to Integrate
- RTCA DO-254 Certifiable Hardware, RTCA DO-178B Certifiable Software

### Interfaces

- Display Port 1.1A Digital Video Inputs/Outputs
- HD-SDI SMPTE-292 Digital Video Input
- RS-170 Analog Video Input
- Serial Interfaces (RS-422, RS-485, RS-232)
- MIL-STD-1553B Interfaces
- ARINC-429 Input/Output Interfaces
- ARINC-708 Input
- Ethernet Interfaces (10/100/1000 Mbits/s)
- USB 2.0 Interfaces
- Discrete I/O Interfaces

### Physical Specifications

- Dimensions : 306 mm (W) x 239 mm (H) x 237 mm (L)
- Weight : < 17 kg

### Technical Specifications

- Power Input : 28 VDC (Nominal)
- Power Consumption: 392W (Nominal) / 476W (Maximum)
- Power Hold-Up for Short Time Power Interrupts
- Display Type : Color Active Matrix Liquid Crystal Display
- Display Area : 8" x 10"
- Resolution : 1360 x 1024 (140 color groups per inch)
- Display Color : 16.2 Million Colors
- Viewing Envelope : +/- 70° Horizontal, +/- 70° Vertical
- Luminance Range : 0.03 fL - 300 fL
- NVIS Compatibility : MIL-STD-3009, Class A and B

### Environmental Conditions

- Operating Temperature and Altitude: -40°C / +71°C, 20.000 ft
- Storage Temperature and Altitude: -55°C / +71°C, 50.000 ft

### Qualifications

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



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