Rugged touchscreen display with built-in graphics processing and modular expansion slots

Compact, rugged design with powerful processing and open architecture delivers situational awareness for C4ISR

The CODIS SV-126 smart display from Esterline combines a 10-inch high-bright touchscreen with the graphics and computing power of a rugged computer to provide a high-performance visualisation processor in a compact footprint. Due to its design for SWaP-C and modular open architecture, this display is ideal for vehiclemounted C4ISR applications.

Extreme Performance

The SV-126 smart display offers the latest proven technologies, such as a rugged analog-resistive, low reflection touchscreen and the latest generation of Intel® Core™ processors. These features are packaged to deliver optimal performance while operating in harsh environments.

Modular Design

The SV-126 display includes six expansion slots based on open industry standards. This modularity allows customised IO configurations and dedicated hardware controllers to support multiple security domains.

Image Processing and Real-Time Performance

The SV-126 display connects to a variety of imaging and data sources to deliver enhanced situational awareness. The CODIS media-management software supplied with the display enables hardware-accelerated GPU-based image processing with low latency for stream decoding, scaling, and indowing. The display can be optionally equipped with the CODIS VXB video board for hard realtime video inputs directly to the screen.

Specifications

Panel Size	10.4" diagonal, 4:3 aspect ratio
Resolution	1024 x 768 (XGA)
Colour Depth	6 bits/color 8 bits/color with patented dithering algorithm
Brightness	Day mode: 650 cd/m² / 190 fL min. Night mode: 3.43 cd/m² / 1.0 fL max., dimmable to black
Contrast Ratio	700:1 (dark environment)
Dimming Ratio	> 200:1 typical
HMI	4 control keys 32 function keys Rugged AR high-resolution touchscreen
Computing	Intel® QuadCore™ i7-4700EQ, 4x 1.7 GHz, 16 GB RAM
Graphics Card	Integrated Intel® HD Graphics 4600
Storage Capacity	120 GB field-removable SSD, SATA 3.1 compliant (6 Gb/sec)
Inputs / Outputs	2x Intel PRO1000 Gigabit Ethernet ports 4x USB 2.0 4x serial lines (RS-232/RS-422/RS-485) 2x CAN bus (ISO 11898, CAN 2.0 A/B, and J1939 compliant) HD audio in/out/micro 4x video inputs RS-170, PAL/NTSC 4x GPIO + PTT I/O isolated or buffered as applicable
Option Slots	1x PCI-e 1x XMC or M.2 mini PCI-e 3x mini PCI-e
Operating System	CentOS Linux, 64-bit
Power Supply	MIL-STD-1275E compliant
Power Consumption	50 W typical, 80 W max. (without heaters)
Dimensions (HWD)	286 x 254 x 68 mm
Weight	5.9 kg
Environmental • Operating Temperature • Storage Temperature • Humidity • Altitude • Salt Fog • Sand and Dust • Ingress Protection • Vibration • Shock	MIL-STD-810G - 46ºC to + 65ºC (+ 71ºC with limitations) - 51ºC to +71ºC 95%, 60ºC 40,000 feet operating, 50,000 feet non-operating 48 hours, 5% concentration Blowing sand/dust 1 metre immersion for 30 minutes Tracked-vehicle profile 40 g, 23 ms (6 shocks/axis)
EMI / EMC	MIL-STD-461F Ground army

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