SV-126

10-inch smart display with touchscreen
Vehicle Rugged Displays and Computing: Smart Display

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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 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. Because of its design for SWaP-C and modular open architecture, this display is ideal for vehiclemounted C4ISR applications.

Extreme Performance

Our 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 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 VXB video board for hard real-time 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/colour 8 bits/colour 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	256 GB field-removable SSD, SATA 3.1 compliant (6 Gb/sec)
Inputs / outputs	2 x Intel PRO1000 Gigabit Ethernet ports 4 x USB 2.0 4 x serial lines (RS-232/RS-422/RS-485) 2 x CAN bus (ISO 11898, CAN 2.0 A/B, and J1939 compliant) HD audio in/out/micro 4 x video inputs RS-170, PAL/NTSC 12 x GPIO + PTT I/O isolated or buffered as applicable
Option slots	1 x PCI-e 1 x XMC or M.2 mini PCI-e 3 x mini PCI-e
Operating system	No Operatin System installed
Power supply	MIL-STD-1275E compliant
Power consumption	50 W typical, 80 W max (without heaters)
Dimensions	286 x 254 x 68mm (w x h x d)
Weight	5.9 kg
Environmental	MIL-STD-810G Operating temperature: -46° to +65° C (+71° C with limitations) Storage temperature: -51° to +71° C Humidity: 95 percent, 60° C Altitude: 40,000 feet operating, 50,000 feet non-operating Salt fog: 48 hours, 5-percent concentration Sand and dust: blowing sand/dust Ingress protection: 1 meter immersion for 30 minutes Vibration: tracked-vehicle profile Shock: 40 g, 23 ms (6 shocks/axis)
EMI / EMC	MIL-STF-461F Ground army

Partnered Supplier

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