SV-231

12 inch smart display

Vehicle Rugged Displays and Computing: Smart Display

eylex

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

Powerful processing and open architecture in a compact package deliver high performance for C4ISR applications

The SV-231 smart display from Esterline combines a 12-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. With its design for SWaP-C and modular open architecture, this display is ideal for vehicle-mounted C4ISR applications.

Extreme Performance

Our SV-231 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-231 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-231 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 windowing. The display can be optionally equipped with the VXB video board for hard real-time video inputs directly to the screen.

Product Specifications

Panel size	12.1 inches diagonal, 16:10 aspect ratio
Resolution	1280 x 800 (WXGA)
Colour depth	6 bits / colour, 8 bits / colour with patented dithering algorithm
Brightness	Day mode: 680 cd / m^2 / 200 fl mmin. Night mode: 3.43 cd/m^2 / 1.0 fL max., dimmable to black
Contrast ratio	700:1 (dark environment)
Dimming ratio	> 400:1 typical
HMI	4 control keys 32 function keys Rugged AR high-resolution touchscreen
Computing	Intel® QuadCore™ i7-4700EQ, 4 x 1.7 GHz, 16 GB RAM
Graphics card	Integrated Intel® HD Graphics 4600
Storge capacity	256 GB field-removable SSD, SATA 3.1 compliant (6Gb / 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 Operating System installed
Power supply	MIL-STD-1275E compliant
Power consumption	50 W typical, 80 W max. (without heaters)
Dimensions	334 x 254 x 68 mm (w x h x d)
Weight	6.6 kg
Environmental	MIL-STD-810G Operating temperature: –46º to +65º C (+71º C with limitations) Storage temperature: –51º to +71º C Humidity: 95 percentage, 60º C Altitude: 40,000 feet operating, 50,000 feet non-operating Salt fog: 48 hours, 5% concentration Sand and dust: blowing sand / dust Ingress protection: 1 meter immersion for 30 minutes Vibration: tracked-vehicle profile Shoch: 40g, 23 ms (6 shocks / axis)
EMI / EMC	MIL-STD-461F Ground army

Partnered Supplier

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