



Control &
Communication Systems

Codis SV-231 12-Inch Smart Display

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 Codis 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 visualization 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 customized 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 Codis 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 Codis XMC video board for hard real-time video inputs directly to the screen.



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Specifications

Panel size	12.1 inches diagonal, 16:10 aspect ratio	Graphics card	Integrated Intel® HD Graphics 4600
Resolution	1280 x 800 (WXGA)	Storage capacity	120 GB field-removable SSD, SATA 3.1 compliant (6 Gb/sec)
Color depth	6 bits/color, 8 bits/color with patented dithering algorithm	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
Brightness	Day mode: 680 cd/m ² / 200 fL min. Night mode: 3.43 cd/m ² / 1.0 fL max., dimnable to black	Option slots	1x PCI-e 1x XMC or M.2 mini PCI-e 3x mini PCI-e
Contrast ratio	700:1 (dark environment)	Operating system	CentOS Linux, 64-bit
Dimming ratio	> 400:1 typical	Power supply	MIL-STD-1275E compliant
HMI	4 control keys 32 function keys Rugged AR high-resolution touchscreen	Power consumption	50 W typical, 80 W max. (without heaters)
Computing	Intel® QuadCore™ i7-4700EQ, 4x 1.7 GHz, 16 GB RAM	Dimensions	334 x 254 x 68 mm / 13.15 x 10.0 x 2.66 inches (w x h x d)
		Weight	6.6 kg / 14.5 lbs
		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-STD-461F Ground army

For more information about
Codis SV-231 smart displays,
email sales.codis@esterline.com.

Esterline
President Kennedypark 35 A
8500 Kortrijk
Belgium
Tel: +32-56-27-20-00
www.esterline.com

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