

SV-126

10" Smart Display

Rugged Displays and Computing: Computers and Smart Displays



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 ScioTeq 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 vehicle mounted 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.

Product Specifications

ELECTRO-OPTICAL	
Panel Type	Active Matrix LCD
Panel Active Area	10.4 inch diagonal
Resolution	1024 x 768 (XGA)
Colour Depth	6 bits/colour 8 bits/colour with patented dithering algorithm
Backlight	LED
Contrast Ratio	700:1 in dark room typical
Dimming Ratio	> 200:1 typical
Brightness	Day mode: 650 cd/m ² / 190 fL min. Night mode: 3.43 cd/m ² / 1.0 fL max., dimmable to black
INTERFACES	
Signal Inputs	2x 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/micro4x video inputs RS-170, PAL/NTSC 11 x GPIO + PTT I/O isolated or buffered as applicable
HMI	4 control keys; 32 function keys; Rugged AR high-resolution touchscreen
COMPUTING	
Computing	Intel® Quad Core™ I7-6822EQ, 4 x 2.0 GHz
RAM	Up to 16 GB DDR3 SODIMM
Graphics Card	Intel® HD Graphics 530
Storage	256 GB field-removable SSD, SATA 3.1 compliant (6 Gb/sec)
Option Slots	1x PCI-e; 1 x XMC or M.2 mini PCI-e; 3 x mini PCI-e
Operating System	No Operating System installed
ENVIRONMENTAL CONDITIONS	
Vibration	Vibration: tracked-vehicle profile - MIL-STD-810G
Shock	40 g, 23 ms (6 shocks/axis) - MIL-STD-810G
Operational Temperature	- 46°C to + 65°C (+ 71°C with limitations) - MIL-STD-810G
Storage Temperature	- 51°C to + 71°C - MIL-STD-810G
Humidity	95% RH temperature cycle 60°C - MIL-STD-810G
Drip Proof	MIL-STD-810F Meth 506.4 proc III
Altitude	40,000 ft operating, 50,000 ft non-operating - MIL-STD-810G
EMI/EMC	MIL-STD-461G - Ground Army
Sand and Dust, Salt Fog	MIL-STD-810G - 48 hours, 5% concentration, blowing sand/dust
GENERAL SPECIFICATIONS	
Power	MIL-STD-1275E compliant
Power Consumption	50 W typical, 80 W max. (without heaters)
Weight	5.9 kg
Dimensions	286 x 254 x 68 mm (w x h x d)
Cooling	Passive

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All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

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