DPM-3

Display processing module

Vehicle Rugged Displays and Computing: Rugged Computers

Compact, rugged video processor with open architecture

Customisable computer delivers real-time video processing and MIL-qualified performance in a compact, rugged design

The DPM-3 rugged computer from Esterline is used for on-the-move operations in the space constrained crewstations of combat and tactical vehicles and helicopters. It delivers the latest MXM graphics and Intel® Mobile Core™ computing power, and is fully MIL qualified and field proven.

Compact, Modular Solution for Extreme Environments

The DPM-3 computer is designed for optimal SWaP-C (size, weight, power, and cost), offering the most compact package in its processing class. Its modular and open architecture facilitates a complete, customised solution, all ruggedised for the most extreme environments.

Real-Time Video Processing

The DPM-3 computer easily connects to a wide range of sensors, and its discrete GPU enables hardware accelerated image processing. Also featured are advanced video processing (such as image fusion) and high-resolution video streaming functionality for improved situational awareness.

Product Specifications

Computing	Intel® Quad CoreTM i7-6822EQ, 4 x 2.0 GHz, 16 GB ECC RAM
Graphics card	Integrated Intel® HD530 Graphic
Storage capacity	256 GB Removable SSD, SATA II compliant (3 Gb/sec)
Inputs / outputs	2 single link DVI outputs for primary and secondary display 2 x Intel PRO 1000 Gigabit Ethernet ports 6 x USB 2.0 8 x serial line (RS232 / RS422 / RS485) 2 x CAN buses, CAN 2.0B compliant HD audio in / out / micro AC 97 I / O isolated or buffered as applicable
Option slots	1 x MXM (graphic upgrade slot) 2 x XMC or 1 x XMC and 4 x mini PCI-e 1 x vehicle I / O extension slot
Operating system	Microsoft Windows 7 Professional for Embedded Systems, 64-bit
BIT, BITE, Maintenance	Enhanced embedded Built-In-Test features to provide permanent unit monitoring, Fault detection, Fault isolation, and Fault recording. Enhanced Maintenance capabilities to configure the unit, Locally monitor the unit (Customer Application), even Remotely Maintain the unit.
Power supply	28 VDC, MIL-STD-1275D compliant, IES hold-up compliant
Power consumption	Power consumption 50 W typ., 80 W max. (without heaters)
Dimensions	305 x 217 x 76 mm (w x d x h)
Weight	5 kg
Environmental	MIL-STD-810G Operating temperature: -46° C to +65° C (+71° C with limitations) Storage temperature:-46° C 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-461E/F Ground army

Options

Graphics upgrade	ATI Radeon HD8860M MXM 3.0, with operating temperature limitations
Esterline vehicle I / O extension board	16 x digital input, contact to the vehicle chassis ground 4 x digital outputs, 300 mA, referenced to the vehicle VBAT (32 V max. low side) 4 x digital outputs, 2 A, referenced to the vehicle GND (high side) 4 x analog inputs (2x 0 to 5 V and 2x 0 to 36 V)
Operating system	RedHat Linux Enterprise Linus 6.x, 64-bit

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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

Partnered Supplier

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