

## DPM-3

Display Processing Module

**Shelters 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

<b>Computing</b>	Intel® Quad Core™ i7-6822EQ, 4 x 2.0 GHz, 16 GB ECC RAM
<b>Graphics card</b>	Integrated Intel® HD530 Graphic
<b>Storage capacity</b>	256 GB Removable SSD, SATA II compliant (3 Gb/sec)
<b>Inputs / outputs</b>	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
<b>Option slots</b>	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
<b>Operating system</b>	Microsoft Windows 7 Professional for Embedded Systems, 64-bit
<b>BIT, BITE, Maintenance</b>	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.
<b>Power supply</b>	28 VDC, MIL-STD-1275D compliant, IES hold-up compliant
<b>Power consumption</b>	Power consumption 50 W typ., 80 W max. (without heaters)
<b>Dimensions</b>	305 x 217 x 76 mm (w x d x h)
<b>Weight</b>	5 kg
<b>Environmental</b>	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)
<b>EMI / EMC</b>	MIL-STD-461E/F Ground army

## Options

<b>Graphics upgrade</b>	ATI Radeon HD8860M MXM 3.0, with operating temperature limitations
<b>Esterline vehicle I / O extension board</b>	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)
<b>Operating system</b>	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

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