

DPM-3 Display Processing Module

Compact, rugged video processor with open architecture

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



The ScioTeq DPM-3 rugged computer is used for on-themove operations in the spaceconstrained 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, customized solution, all ruggedized 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.



GENERAL	
Computing	Intel® Quad CoreTM i7-6822EQ, 4x 2.0 GHz
RAM	Up to 16 GB DDR3 SODIMM
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 2x Intel PRO1000 Gigabit Ethernet ports 6x USB 2.0 8x serial lines (RS232/RS422/RS485) 2x CAN buses, CAN 2.0B compliant HD audio in/out/micro AC 97 I/O isolated or buffered as applicable
Option slots	1x MXM (graphics upgrade slot) 2x XMC or 1x XMC and 4x mini PCI-e 1x vehicle I/O extension slot
Operating system	Microsoft Windows 10 IoT Enterprise 2016 LTSB, 64-bit
BIT, BITE, Maintenance	Enhanced embedded Built-In-Test features to provide permanent unit monitoring, Fault detec- tion, 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	50 W typ., 80 W max. (without heaters)
Dimensions	305 x 217 x 76 mm / 12.00 x 8.50 x 3.00 inches (w x d x h)
Weight	5 kg / 11 lbs
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
ScioTeq vehicle I/O extension board	16x digital input, contact to the vehicle chassis ground 4x digital outputs, 300 mA, referenced to the vehicle VBAT (32 V max. low side) 4x digital outputs, 2 A, referenced to the vehicle GND (high side) 4x analog inputs (2x 0 to 5 V and 2x 0 to 36 V)
Operating system	Windows 10 IoT 64 bit, Centos Linux 7.x, 64-bit upon request
OTHER	
For custom options, please contact ScioTeq	

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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