

DPM-3

Rugged computer



DPM-3 is Barco's latest generation rugged computer for use inside the space-constrained areas of wheeled and tracked military vehicles. DPM-3 is very compact which makes integration into vehicles very easy. Barco's new rugged computer features all the latest graphics and computing power, and is fully MIL-qualified for the most extreme conditions inside rugged vehicles.

The DPM-3's modular architecture facilitates connectivity to any sensors and contains advanced video processing and high quality video streaming capability for better situational awareness.

As such, Barco's DPM-3 is your best SWAP-C companion for demanding sensor processing applications in rugged vehicles.

DPM-3 features:

- A **compact, small footprint** for easy integration into vehicles
- High **computing** and **graphics performance** for demanding applications
- **Modular** and **open architecture** for a fully customized processing solution
- High-resolution **networked video streaming**
- High-performance **video processing**, including image fusion, image warping and motion detection
- A **rugged design** for on-the-move operation on board wheeled or tracked vehicles
- **Wide-connectivity** to any vehicle position, including driver, gunner and commander
- **Dual Ethernet featuring redundancy** for safe operation
- **Easy** local or remote **maintenance**

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Visibly yours

Technical specifications of DPM-3

Computing

- Modular concept, allowing for easy technology adoption and scalability
 - Intel® Core2Duo P8400, 2.26GHz, 3MB L2 cache
 - For other CPU options, please contact Barco
- RAM: up to 4 GB

Graphics

- Integrated Intel® GMA X4500
- NVidia MXM FX880M with 1GB frame buffer for demanding applications (Optional)

Networked video streaming (optional)

- GPU-based decompressing using H.264 technology
- Real-time networked video board with low-latency JPEG2000 decompression

Mass storage

- SATA solid state drives from 8 to 128 GB
- Removable drive bay for maintenance purposes

Input/Output

- 2 single link DVI outputs for primary and secondary display
- 2 Intel PRO1000 Gigabit Ethernet ports, configurable for redundancy and teaming
- 6 x USB 2.0
- 8 serial lines (RS232/RS422/RS485 opto-coupled)
- 2 opto-coupled CAN bus, Can 2.0B compliant
- HDA Audio in / out / micro AC'97
- 4 video inputs RS170, PAL/NTSC (isolated)
- 2 XMC expansion slots for additional functionality

Operating Systems

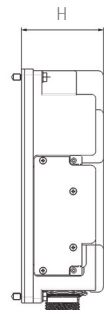
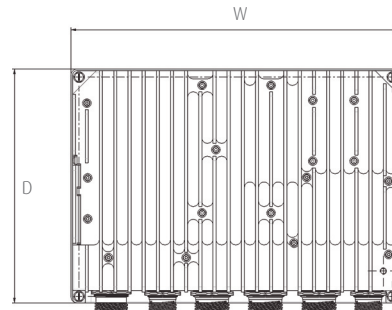
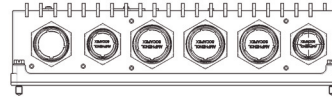
- Windows, Linux (for other OS's, please contact Barco)

28V DC Power

- MIL-STD 1275E compliant
- IES compliant
- Power consumption: 50W typ., 80W max.

Dimensions

- W x D x H: 305 x 217 x 76mm (12.00" x 8.50" x 3.00")
- Weight: 5 kg (11 lbs)



MIL-qualified for wheeled or tracked vehicles

- Vibration/shock: MIL-STD 810G
- Humidity: MIL-STD 810G
- Sand/dust: MIL-STD 810G
- Fluids: MIL-STD 810G
- Salt fog: MIL-STD 810G
- Operating temperature: -25°C / -13°F, +65°C / 150°F (MIL-STD 810G), even up to 71°C / 160°F (limited in time)
- Non operating temperature: -46°C / -50°F, +85°C / 185°F (MIL-STD 810G)
- EMI/EMC: MIL STD 461F
- Water tightness: IP67

Maintenance

- Fanless design
- Local and Ethernet access to board identification, runtime, temperature, history, and status
- Removable drive
- Easy CMOS battery access

M00409-R00-1010-DS

Barco is an ISO 9001 registered company.
The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.
The latest version of this product sheet can be found on www.barco.com.

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