

Miovision Core[®] DCM Hardware Specifications



The Miovision Core[®] DCM is a full-stack ITS solution for managing and analyzing intersections. The open and secure platform provides wireless connectivity and communications so you can access your cabinets from anywhere. The improved modular design optimizes performance and reliability in all environments and can be easily upgraded to expand functionality to manage your traffic today and evolve with the development of your network.

The high-performance NVIDIA Volta™ GPU enables you to process detection and count data at the source with industry-leading precision and accuracy giving you the power to make real-time decisions with accurate and complete data.

Contents

Kit contents	1 x Miovision Core DCM
	1 x Cable Kit
	1 x Power Supply
	1 x Antenna

Device Weight (not including cables)

Miovision Core DCM	6.7 lbs (3 kg)
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Power

Power supply	Input: 89 to 240 VAC, 47 to 63 Hz uninterrupted (non-GFCI required).
	Standard NEMA 5-15R or terminal block wiring supported.
	Output: 48 VDC at 135W
	UL and cUL certified
	Compliant to NEMA TS2 environmental requirements

Power consumption	Max: 129W (includes 3 cameras)
	Typical: 114W (includes 2 cameras)

Dimensions	7.9 x 2.6 x 1.8 in
	200 x 65 x 45 mm

Hold up	Minimum 1 second hold up for power loss events (NEMA TS-2 compliant)
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Operating Conditions

Operating temperature	-30°F to 165°F (-34°C to 74°C)
Humidity	0% - 95% RH non-condensing

Processors

Core	CPU: Quad-core ARM [®] A57 @ 1.43 GHz
	GPU: 128-core Maxwell
Core DCM	CPU: 8-core NVIDIA Carmel ARM [®] 64-bit
	GPU: 512-core NVIDIA Volta™ GPU with 64 Tensor Cores

Security

Trusted Platform Module (TPM)	RSA Key Generation 2048 Bits
	RSA Signature and Encryption
	ECC 256
	AES 128
	SHA 256

Storage

Mass storage	Built-in 240GB solid state drive
	Optional 960GB solid state drive available

Wireless Connectivity

Cellular	Integrated 3G and LTE modem
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Location services	GPS, GLONASS
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5-in-1 Antenna

Antenna specifications	2 x MIMO LTE
	2 x MIMO Wi-Fi
	1 x GPS, GLONASS

	8.5 x 3.6 x 1.1 in (216 x 93 x 30 mm)
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Enclosure	Permanent Screw Mount IP67 rated
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Inputs and Outputs

Ethernet ports	1 x 10/100/1000 Ethernet WAN port
	2 x 10/100/1000 Ethernet LAN ports
	3 x 10/100/1000 Ethernet LAN ports with PoE (support for 802.3af PoE and 802.3at PoE+ to a maximum of 50W across all three ports)
	Includes transient surge protection (IEC 61000-4-4 class 2)
	Includes lightning surge protection (IEC 61000-4-5 class 4)
SDLC port	1 x SDLC connection
ATC port (optional)	1x ATC SB1 connection
Serial ports	2 x EIA RS-232 over RJ45 interface (cable included)
General Purpose I/O	4 x +5V open drain I/Os
Priority Control I/O	8 x NEMA compliant I/Os

Certifications

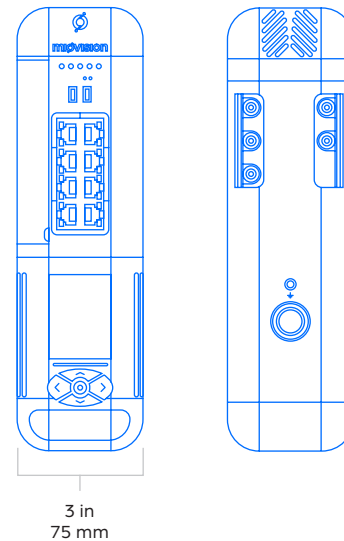
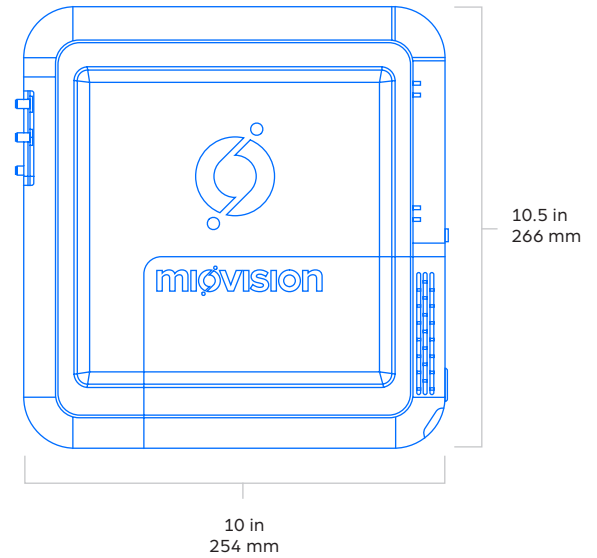
NEMA	Compliant to NEMA TS-2 Environmental Requirements
FCC	FCC Part 15, Subpart B, Class A
PTCRB	PTCRB compliant

Composition

Inner material	Aluminum
Outer material	PC/ABS (Polycarbonate-ABS)

Specifications are subject to change without notice.

Dimensions



For more information, visit help.miovision.com,
email us at support@miovision.com,
or call us NA Toll-free at 1-855-360-7752