Miovision Core® DCM Hardware Specifications

The Miovision Core® DCM is a full-stack ITS solution for managing and analyzing your 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 with DCM 1 x Cable Kit 1 x Power Supply 1 x Antenna

Device weight (not including cables)

Miovision Core® DCM	6.3 lbs (2.9 kg)

Power

Power adapter	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
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 5 second hold up for power loss events

Operating conditions

Operating temp	–29°F to 165°F (–34°C to 74°C)
Humidity	5% – 95% RH non-condensing

Processor

CTM NVIDIA Processor	CPU: Quad-core ARM® A57 @ 1.43 GHz GPU: 128-core Maxwell
DCM NVIDIA Processor	CPU: 6-core NVIDIA Carmel ARM® 64-bit GPU: 384-core NVIDIA Volta™ GPU with 48 Tensor Cores
Security Trusted Platform Module (TPM)	RSA Key Generation 2048 Bits RSA Signature and Encryption ECC 256 AES 128 SHA 256

Memory

Mass storage	Built-in 240GB solid state

Wireless connectivity

Cellular	LTE Cat 4 bands B2, B4, B5, B12, B13, B14, B66, B71
Location services	GPS, GLONASS
Wi-Fi	802.11 a/b/g/n Restricted to customer-authorized communications

5-in-1 antenna

Antenna specs	2x MIMO LTE 2x MIMO Wi-Fi 1x GPS-GLONASS-Beidou
Enclosure	8.5 x 3.6 x 1.1 in 216 x 93 x 30 mm Permanent Screw Mount IP67 rated

I/O

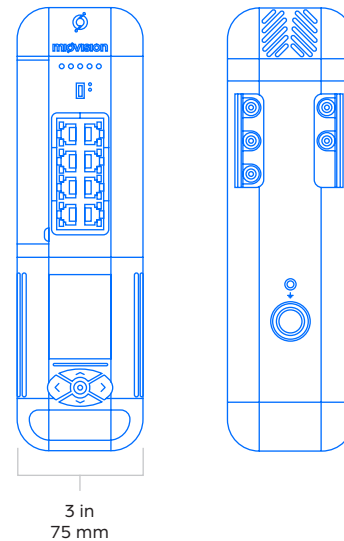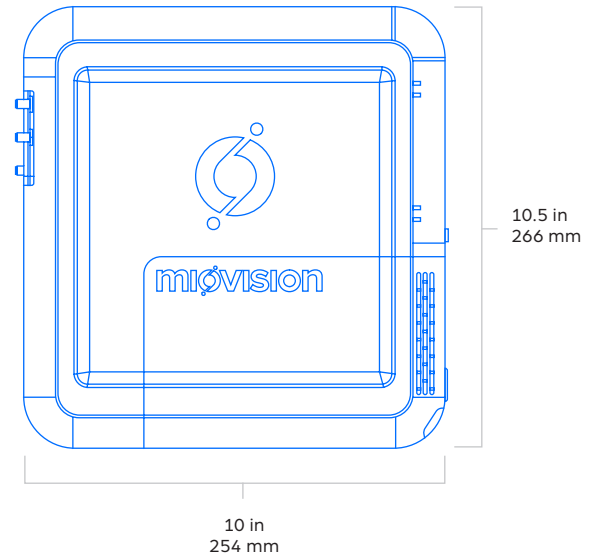|	
Ethernet ports	1 x 10/100/1000 Ethernet WAN port 2 x 10/100/1000 Ethernet LAN ports 3 x 10/100/1000 Ethernet LAN ports with PoE (support for 802.3af PoE and 802.3at PoE+ to a maximum of 50W across all three ports)
SDLC port	1x SDLC port (proprietary connector, DB15 adapter included)
Serial ports	2 x EIA RS–232 over RJ45 interface (cable included)
USB port	1 x USB–A port
General Purpose I/O	4 x +5V open drain I/Os
Priority Control I/O	8 x NEMA compliant I/Os
Detector I/O	8 x NEMA compliant I/Os (fail passive) 16 x NEMA compliant I/Os (fail active)

Certifications

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

Material composition

Core DCM housing	Aluminum
Core DCM center structure	PC/ABS (Polycarbonate–ABS)

Dimensions

10.5 in
266 mm

10 in
254 mm

3 in
75 mm

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