

# Miovision Core<sup>®</sup>

## Hardware Specifications



Miovision Core<sup>®</sup> is an open, secure ITS hardware platform that provides wireless connectivity and communications so you can manage your traffic cabinets from anywhere. The modular design optimizes performance and reliability in all environments and can be easily upgraded to expand functionality to manage traffic today and evolve with the development of your network. With access to data and insights to identify and resolve infrastructure problems, manage signal remitting, and optimize traffic flow, Miovision Core maximizes the value and performance of your infrastructure.

### Contents

<b>Kit contents</b>	<ul style="list-style-type: none"> <li>1 x Miovision Core</li> <li>1 x Cable Kit</li> <li>1 x Power Supply</li> <li>1 x Antenna</li> </ul>
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### Device Weight (not including cables)

<b>Miovision Core</b>	5.3 lbs (2.4 kg)
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### Power

<b>Power supply</b>	<p>Input: 89 to 240 VAC, 47 to 63 Hz uninterrupted (non-GFCI required).</p> <p>Standard NEMA 5-15R or terminal block wiring supported.</p> <p>Output: 48 VDC at 135W</p> <p>UL and cUL certified</p> <p>Compliant to NEMA TS2 environmental requirements</p>
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<b>Power consumption</b>	<p>Max: 83W (includes 3 cameras)</p> <p>Typical: 68W (includes 2 cameras)</p>
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<b>Dimensions</b>	<p>7.9 x 2.6 x 1.8 in</p> <p>200 x 65 x 45 mm</p>
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<b>Hold up</b>	1 second hold up for power loss events (NEMA TS-2 compliant)
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### Operating Conditions

<b>Operating temperature</b>	-30°F to 165°F (-34°C to 74°C)
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<b>Humidity</b>	5% - 95% RH non-condensing
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### Processors

<b>Core</b>	CPU: Quad-core ARM <sup>®</sup> A57 @ 1.43 GHz
	GPU: 128-core Maxwell

### Security

<b>Trusted Platform Module (TPM)</b>	<ul style="list-style-type: none"> <li>RSA Key Generation 2048 Bits</li> <li>RSA Signature and Encryption</li> <li>ECC 256</li> <li>AES 128</li> <li>SHA 256</li> </ul>
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### Storage

<b>Mass storage</b>	<ul style="list-style-type: none"> <li>Built-in 240GB solid state</li> <li>Optional 960GB solid state drive available</li> </ul>
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### Wireless Connectivity

<b>Cellular</b>	<p>LTE Cat 4</p> <p>Supported bands:</p> <ul style="list-style-type: none"> <li>• LTEFDD: B2/B4/B5/B12/B13/B14/B66/B71</li> <li>• WCDMA: B2/B4/B5</li> </ul>
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<b>Location services</b>	GPS, GLONASS
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### 5-in-1 Antenna

<b>Antenna specifications</b>	<ul style="list-style-type: none"> <li>2 x MIMO LTE</li> <li>2 x MIMO Wi-Fi</li> <li>1 x GPS-GLONASS</li> </ul>
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<b>Enclosure</b>	<p>8.5 x 3.6 x 1.1 in</p> <p>216 x 93 x 30 mm</p>
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<b>Enclosure</b>	<ul style="list-style-type: none"> <li>Permanent Screw Mount</li> <li>IP67 rated</li> </ul>
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## Inputs and Outputs

<b>Ethernet ports</b>	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)
<b>SDLC port</b>	1 x SDLC port (proprietary connector)
<b>Serial ports</b>	2 x EIA RS-232 over RJ45 interface (cable included)
<b>General Purpose I/O</b>	4 x +5V open drain I/Os
<b>Priority Control I/O</b>	8 x NEMA compliant I/Os

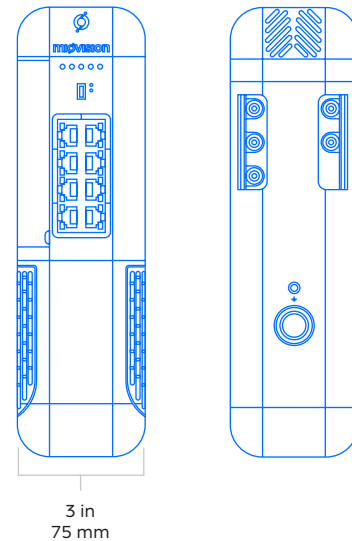
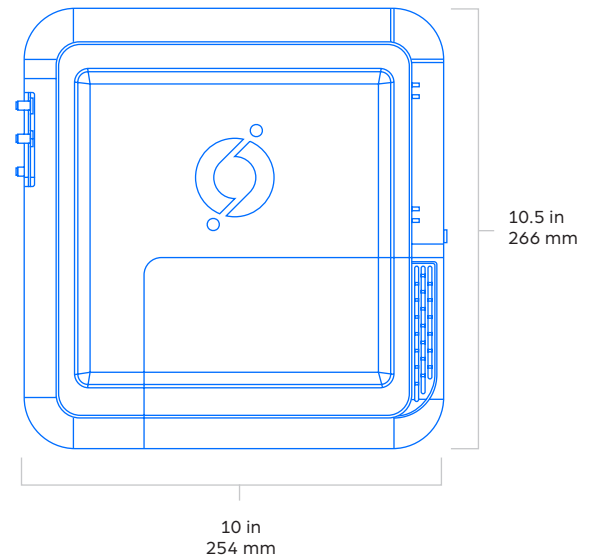
## Certifications

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

## Composition

<b>Inner material</b>	Aluminum
<b>Outer material</b>	PC/ABS (Polycarbonate-ABS)

## Dimensions



For more information, visit [help.miovision.com](https://help.miovision.com),  
email us at [support@miovision.com](mailto:support@miovision.com),  
or call us NA Toll-free at 1-855-360-7752