

# R247-MX

## Connected Stop/Warning Beacon or Sign

Increase compliance and safety across a range of roadway applications with high-intensity, connected beacons and signs.

- ✓ Every system ships with **3 years of free remote connectivity**
- ✓ Actionable email and text alerts
- ✓ Remote system access via MX Cloud™
- ✓ Quick setup and local access with MX Field App™ (iOS/Android)
- ✓ 'Smart module' design for simple installation and richer data
- ✓ Solar Power Report (SPR) available for every location

### Free out-of-the-box connectivity

R247-MX systems have connectivity embedded into their design, making installation easy. From the moment a system receives power, it connects both locally to the MX Field App and remotely to MX Cloud, providing easy remote access to system status, settings and data.

### Timely and actionable alerts

Cities can enable email and text alerts so they can know the minute there's an issue, be it a knockdown, dead battery or something else. Detailed location and module information reduce downtime and boost site visit efficiency while providing optimal citizen safety.

### Comprehensive asset visibility and data collection

All MX systems come with MX Cloud, a web-based application that lets users remotely access system locations, alerts, settings and data. The GPS map not only gives cities better visibility, but enables streamlined, proactive asset management and future planning.

### Long-lasting, reliable operation

Every MX module is built to last with durable, weatherproof aluminum construction and vandal-resistant wireless antennas. Solar-powered models are solar-sized to project locations, backed by a Solar Power Report (SPR) to prove year-round sustainability.



carmanah®  
MX Series



Cabinet-based solar and AC (100-240 VAC) available

## MX Series Connective Capabilities



MX CLOUD  
(REMOTE)



MX FIELD APP  
(LOCAL)

### What's a Solar Power Report™ (SPR)?

No matter where you install your solar-powered system, your product should be carefully sized for its location to ensure it will be operational for the long-term.

Over the last 20+ years, our engineers have developed a field-proven software simulation that helps us replicate the real-life conditions of your project location—and determine the best solar-powered solution for your project.

Learn more about our process at [carmanah.com/spr](https://carmanah.com/spr).



Configurable  
to MUTCD  
Standards



Buy America/  
BABA compliant



3-year limited  
warranty

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carmanah® MX Series

carmanah.com | traffic@carmanah.com | 1-844-412-8395

## MX FLASHER MODULES



MX Beacon Module



MX LED Sign Modules (other signs available)

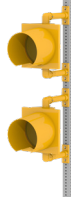
MX Beacon Module	Configurable to MUTCD 11th Ed. (Chapter 4S) Standard 12" (305 mm) or 8" (203 mm) diameter LED modules, yellow or red Yellow or black heads in UV-resistant polycarbonate or aluminum
MX LED Sign Module	Meets MUTCD 11th Ed. (Chapter 2A.12) Standards 3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components UV-resistant polycarbonate channels and waterproof housings protect wiring; includes fully integrated junction box Many sign shapes, sizes and configurations available

## MX FLASHER MODULE MOUNTING (others available)

Single - Integrated



Dual - Vertical



Dual - Horizontal



Standard Banding



Through Bolt





U-Bolt



## WIRELESS COMMUNICATION AND DATA COLLECTION

Local	MX Field App (Bluetooth®)
System-To-System	Linked MX systems flash in sync up to 1,000 ft (305 m) away
Remote	MX Cloud (cellular)
Location & Time	GPS




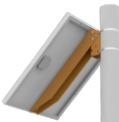
## INCLUDED WITH EVERY SYSTEM

MX Subscriptions	<b>3 years out-of-the-box remote connectivity with MX Lite</b> <a href="#">See all MX subscriptions</a>
<a href="#">MX Cloud</a>	MX Cloud for remote health status monitoring, email/SMS alerts, scheduling, asset management, programming and more
<a href="#">MX Field App</a>	Bluetooth® mobile app for on-site setup, local access to default settings, calendar scheduling, system health status and more  
Warranty	3-year limited warranty on MX system 1-year limited warranty on batteries
Support	Carmanah's North American product support technologists available for solution building, solar sizing and troubleshooting 24/7 access to Carmanah's online <a href="#">Product Support Center</a>
Customize	<a href="#">Build an R247-MX online</a>

## MX POWER MODULES

Solar	12 VDC operation, solar sized to specific geographic location Includes 12-month Solar Power Report to ensure sustainability System designed for 5+ year battery life Replaceable, recyclable, sealed, maintenance-free AGM batteries offer the widest temperature range and longest life
AC (only MX 300/400)	100-240 VAC in standard configurations
Construction	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R) Lockable door Cabinet systems include Type II lock option (standard for MX 400) Corrosion-resistant aluminum with stainless steel hardware Raw aluminum finish or black powder-coated



MX 100		MX 200		MX 300		MX 400	
Type	Integrated solar + battery	Integrated solar + battery		Separate solar + cabinet	Separate solar + cabinet		
Housing Dimensions & Weight (w/o batteries)	12.6 x 13.6 x 5.3" 320 x 345 x 135 mm 5 lb (2.3 kg)	30 W version: 18.3 x 15.7 x 5.8" 465 x 399 x 147 mm 11 lb (5.0 kg)		16.7 x 11.3 x 7.0" 424 x 287 x 178 mm 10 lb (4.5 kg)	21.9 x 16.1 x 8.3" 556 x 409 x 211 mm 19 lb (8.6 kg)		
		50 W version: 18.3 x 26.3 x 5.8" 465 x 668 x 147 mm 14 lb (6.4 kg)		AC version weight: 12 lb (5.4 kg)	AC version weight: 21 lb (9.5 kg)		
Mount Kits							
	Top of Pole Mount	Side of Pole Mount		Top of Pole Mount	Side of Pole Mount		
	Universal solar mounts: <ul style="list-style-type: none"><li>• 2-2.5" perforated square posts</li><li>• 2.38-2.88" OD round poles</li><li>• 3.5-4.5" OD round poles</li><li>• Side of pole</li></ul>			Cabinet mounts: <ul style="list-style-type: none"><li>• Standard banding</li><li>• Through bolts</li><li>• U-bolts (MX 400 only)</li></ul> Universal solar mounts: <ul style="list-style-type: none"><li>• 3.5-4.5" OD round poles</li><li>• Side of pole</li></ul>			
Batteries	1-2x 7 Ah	1-2x 18 Ah		1x 18, 35 or 55 Ah	1x 35, 55 or 100 Ah		
Solar	15 W	30 or 50 W		50, 80 or 170 W	50, 80 or 170 W		
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above		50 W: 26.3 x 21.2" (668 x 538 mm) 10 lb (4.5 kg)			
				80 W: 30.7 x 26.5" (780 x 672 mm) 13 lb (5.9 kg)			
				170 W: 59.1 x 26.3" (1500 x 668 mm) 25 lb (11.3 kg)			

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**Specifications subject to local environmental conditions, and may be subject to change.**

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