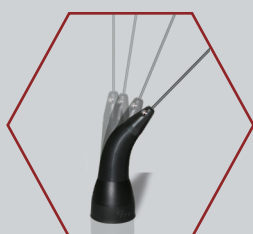


# MOBILE & FIXED STATION ANTENNAS



**4G-LTE**  
**Telemetry**  
**Custom Design**  
**LMR-Public Safety**  
**Hand-held Portable Antennas**

**L**and **M**obile **R**adio Edition

QUALITY

HONESTY

INTEGRITY

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## OUR MISSION

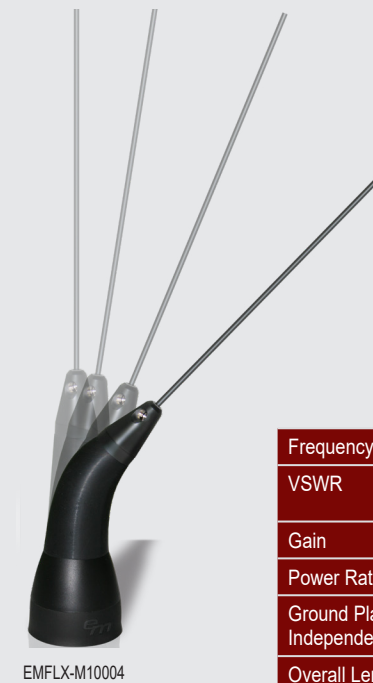
### E/M Wave, Inc.

is committed to help our customers communicate through innovative RF and wireless solutions, by exceeding your expectations for quality antenna design, performance, and reliability.

*"Finally someone is building a better antenna solution."*

## VHF NMO Mount Antenna

M10004 series **132-174 MHz**



EMFLX-M10004

**e/m-Flex®**

- O-ring seals for waterproof construction
- Durable ASA base with TPE overmold dust seal provides professional installation finish including a grip ring to ease antenna install and removal
- Elastomeric Polymer, Proprietary spring with black chrome finish whip adapter

	EMFLX-M10004	EMFLX-M10004-GPI	EM-M10004	EM-M10004-GPI	EM-M10004-LS	EM-M10004-GPI-LS
Frequency Band	132-174 MHz					
VSWR	<1.5:1 at center freq.	<1.2:1 at center freq.	<1.5:1 at center freq.	<1.2:1 at center freq.	<1.5:1 at center freq.	<1.2:1 at center freq.
Gain	3 dB	2 dBi	3 dB	2 dBi	3 dB	2 dBi
Power Rating	150 W					
Ground Plane Independent	–	YES	–	YES	–	YES
Overall Length (max)	55 7/16 in. (1.408 m.)	50 in. (1.17 m.)	55 7/16 in. (1.408 m.)	50 in. (1.17 m.)	55 7/16 in. (1.408 m.)	50 in. (1.17 m.)
Whip Material	17-7 SS, Black Chrome					
Spring Material	Elastomeric Polymer, Proprietary with black chrome finish adapter		Stainless steel, black chrome		–	–
Base Material	ASA with TPE overmold grip ring					
Mounting Application	NMO mount					



EM-M10004  
EM-M10004-LS



EM-M10004-GPI  
EM-M10004-GPI-LS

M10014 series **144-174 MHz**



EMFLX-M10014

EMFLX-M10014-GPI

- O-ring seals for waterproof construction
- Durable ASA base with TPE overmold dust seal provides professional installation finish including a grip ring to ease antenna install and removal
- Elastomeric Polymer, Proprietary spring with black chrome finish whip adapter

	EMFLX-M10014	EMFLX-M10014-GPI	EM-M10014	EM-M10014-GPI	EM-M10014-GPI-LS
Frequency Band	144-174 MHz				
VSWR	<1.5:1 at center freq.	<1.2:1 at center freq.	<1.5:1 at center freq.	<1.2:1 at center freq.	<1.2:1 at center freq.
Gain	3 dB	2 dBi	3 dB	2 dBi	2 dBi
Power Rating	150 W				
Ground Plane Independent	–	YES	–	YES	YES
Overall Length (max) @144 MHz	46 in. (1.17 m.)	45 3/4 in. (1.16 m.)	49 3/8 in. (1.25 m.)	45 3/4 in. (1.16 m.)	45 3/4 in. (1.16 m.)
Whip Material	17-7 SS, Black Chrome				
Spring Material	Elastomeric Polymer, Proprietary with black chrome finish adapter		Stainless steel, black chrome		–
Base Material	ASA with TPE overmold grip ring				
Mounting Application	NMO mount				



EM-M10014



EM-M10014-GPI

EM-M10014-GPI-LS



VHF NMO Mount Antenna

EMFLX-M10008-WB 144-174 MHz Wide Band

e/m-Flex®

No Tuning Required



EMFLX-M10008-WB

- O-ring seals for waterproof construction
- Durable ASA base with TPE overmold dust seal
- Elastomeric Polymer, Proprietary spring with black chrome finish whip adapter

Frequency Band	144-174 MHz
VSWR	<1.8:1
Gain	2 dBi
Power Rating	150 W
Overall Length	18-7/8 in. (479.4 mm.)
Whip Material Finish	17-7 SS, Black Chrome
Base Material	ASA w/ TPE overmold grip ring
Mounting Application	NMO mount



EM-M10001

VHF/UHF NMO Mount Antenna

M10001 series 108-520 MHz Quarterwave

e/m-Flex®



EMFLX-M10001

- O-ring seals for waterproof construction
- Broad Band, Field Tunable
- Durable ASA base with TPE overmold dust seal provides professional installation finish including a grip ring to ease antenna install and removal

	EMFLX-M10001	EM-M10001	EM-M10001-LS
Frequency Band	108-520 MHz		
VSWR	(15 MHz Bandwidth @150 MHz) <2.0:1 (50 MHz Bandwidth @450 MHz) <1.5:1 (100 MHz @450 MHz) <2.0:1		
Gain	2 dBi		
Power Rating	150 W		
Overall Length	@108 MHz: 29 in. (737 mm.) @150 MHz: 19 1/4 in. (502 mm.) @450 MHz: 7 3/4 in. (197 mm.)		
Whip Material	17-7 SS, Black chrome		
Spring Material	Elastomeric Polymer, Proprietary with black chrome finish adapter	17-7 Stainless steel, black chrome	—
Base Material	ASA with TPE overmold grip ring		
Mounting Application	NMO Mount		



EM-M10001



EM-M10001-LS

e/m-Flex®



EMFLX-M10003

- O-ring seals for waterproof construction
- Durable ASA base with TPE overmold dust seal provides professional installation finish including a grip ring to ease antenna install and removal

	EMFLX-M10003	EMFLX-M10003-GPI	EM-M10003	EM-M10003-GPI	EM-M10003-LS	EM-M10003-GPI-LS
Frequency Band (Tunable Range)	420-470 MHz	380-520 MHz	420-470 MHz	380-520 MHz	420-470 MHz	380-520 MHz
VSWR	<1.5:1	<2:1	<1.5:1	<2:1	<2:1	<2:1
Gain	3 dBi	2 dBi	3 dBi	2 dBi	3 dBi	2 dBi
Power Rating	150 W					
Ground Plane Independent	–	YES	–	YES	–	YES
Overall Length (max)	14 3/8 in. (365.1 mm.)	16 1/8 in. (409.6 mm.)	14 3/8 in. (365.1 mm.)	16 1/8 in. (409.6 mm.)	14 3/8 in. (365.1 mm.)	16 1/8 in. (409.6 mm.)
Whip Material	17-7 SS, Black Chrome					
Spring Material	Elastomeric Polymer, Proprietary		Stainless steel, black chrome		–	–
Base Material	ASA with TPE overmold grip ring					
Mounting Application	NMO mount					



EM-M10003  
EM-M10003-GPI



EM-M10003-LS  
EM-M10003-GPI-LS

UHF NMO Mount Antenna

M10003 series 420-470 / 380-520 MHz

e/m-Flex®



EMFLX-M10007  
EMFLX-M10007-GPI

- One-piece 17-7 SS Open Coil Whip for Reliability and Performance
- O-ring seals for waterproof construction
- Durable ASA base with TPE overmold dust seal provides professional installation finish including a grip ring to ease antenna install and removal

	EMFLX-M10007	EMFLX-M10007-GPI	EM-M10007-LS
Frequency Band (Tunable Range)	420-470 MHz	440-480 MHz (no tuning required)	445-470 MHz
VSWR	<1.5:1	<2:1	<1.5:1
Gain	5 dB	5 dBi	5 dB
Power Rating	150 W		
Ground Plane Independent	—	YES	—
Overall Length (max)	38 3/8 in. (975 mm.)	31 1/4 in. (794 mm.)	38 3/8 in. (975 mm.)
Whip Material	17-7 SS, Black Chrome		
Spring Material	Elastomeric Polymer, Proprietary with black chrome finish adapter		—
Base Material	ASA with TPE overmold grip ring		
Mounting Application	NMO Mount		



EM-M10007-LS

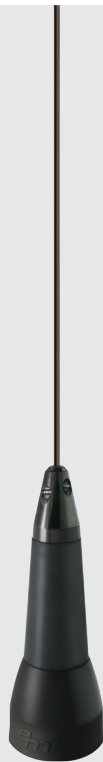
Special Applications

T-Band Mobile Antenna

470-520 MHz

Superior Performance for Public Safety & Commercial Trunking Applications

- Ultra high performance – VSWR <1.5:1 Max
- Durable ASA base with TPE dust seal and grip ring
- Rugged reliability – IP67 Ingress Rated
- e/m-Flex® Polymer Spring – Premium Black Chrome Finish



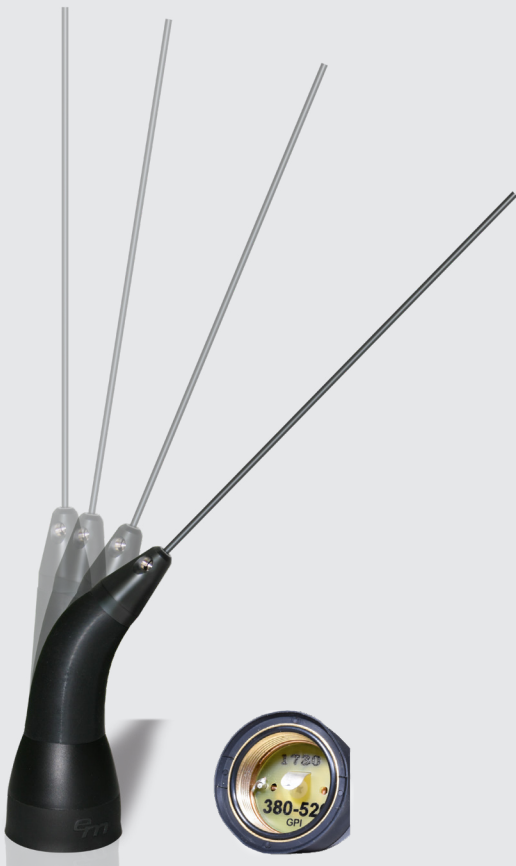
	EMFLX-M10013
Frequency Band (Tunable Range)	470-520 MHz
VSWR	<1.5:1 @ 20 MHz Bandwidth
Gain	3 dB
Power Rating	150 W
Overall Length (max)	12.9 in. (327 mm.)
Whip Material	17-7 SS, Black Chrome
Spring Material	Elastomeric Polymer, Proprietary
Base Material	ASA with TPE overmold grip ring
Mounting Application	NMO mount

460 MHz Center Frequency

No Tuning Required

- NMO Mount, Black Chrome Finish
- Flexible Elastomeric Polymer Spring
- O-ring seals for waterproof construction
- Durable ASA base with TPE overmold
- IP67 Rated

	EMFLX-M10003-460	EMFLX-M10003-GPI-460
Frequency Band (Tunable Range)	460 MHz	460 MHz
VSWR	<1.5:1, 20 MHz Bandwidth <2.0:1, 40 MHz Bandwidth	<1.5:1, 25 MHz Bandwidth <2.0:1, 40 MHz Bandwidth
Gain	3 dB	2 dBi
Power Rating	150 W	
Overall Length (max)	12.2 in. (309 mm.)	10 5/32 in. (258 mm.)
Whip Material	17-7 SS, Black Chrome	
Spring Material	Elastomeric Polymer, Proprietary	
Base Material	ASA with TPE overmold grip ring	
Mounting Application	NMO mount	



	EM-M11017
Frequency Band	698-896 MHz
VSWR	<1.5:1 Typical, <1.6:1 Max
Gain	2 dBi
Power Rating	100 W
Overall Length	3.63 in (92 mm.)
Whip Material	Elastomeric Polymer, Proprietary
Base Material	Brass Black Chrome Plating
Mounting Application	NMO mount

Patent No. US 9,520,640

- Resists Impact and Damage from low hanging obstructions
- Dust and O-ring Seals for Reliable Weatherproof Performance (IP66)
- Industry's Only Low Profile Antenna protected within a rugged flexible housing

Public Safety  
LMR/P25/TETRA  
ISM/SCADA/Utilities  
Railroad/Train Control



	EM-M11009
Frequency Band	746-960 MHz
VSWR	<1.5:1
Gain	2 dBi
Power Rating	100 W
Overall Length	4 in. (102 mm.)
Whip Material	17-7 Stainless Steel, Black Chrome
Base Material	ASA with TPE overmold grip ring
Mounting Application	NMO mount

- Broadband Performance Exceeds 214 MHz
- Low Profile Design for Urban Areas where Gain Antennas May not be Required
- Durable ASA Base with TPE Over Mold Grip Eases Antenna Install and Removal for Car Wash



	EM-M11003
Frequency Band	763-869 MHz
VSWR	<2:1
Gain	5 dBi
Power Rating	100 W
Overall Length	14 1/2 in. (368 mm.)
Whip Material	17-7 Stainless Steel, Black Chrome
Base Material	ASA with TPE overmold grip ring
Mounting Application	NMO mount

- Rugged One-Piece SS Radiator with Limited "Lifetime Warranty"
- Durable and Highly Conductive Black Chrome Finish
- Tightly Wound Phasing Coil Delivers Flexibility while Resisting Low Hanging Obstructions



	EM-MX0746
Frequency Band	746-894 MHz
VSWR	1.5:1 typical, 2.0:1 max
Gain	2.0 dBi
Power Rating	100 W
Overall Length	4 in. (102 mm.)
Polarization	Linear, Vertical
Ground Plane	Required
Mounting Application	NMO mount

- Stylish high-impact, dual shot ASA/TPE base
- Insert molded antenna adapter and brass NMO ring truly eliminates mating concerns of dissimilar metals
- Dual seal construction for weatherproof protection



700 / 800 / 900 MHz

	EM-M11009	EM-M11003	EM-M11008	EM-M11010	EM-M11004	EM-M11014
Frequency Band	746-960 MHz	763-869 MHz	806-894 MHz	850-902 MHz	890-960 MHz	902-928 MHz
VSWR	<1.5:1	<2:1	<2:1	1.5:1 typ. 1.6:1 max.	<2:1	<2:1
Gain	2 dBi	5 dBi	5 dBi	5 dBi	5 dBi	6 dBi
Power Rating	100 W					
Overall Length	4 in. (102 mm.)	14 1/2 in. (368 mm.)	14 1/2 in. (356 mm.)	13.7 in. (348 mm.)	12 1/2 in. (318 mm.)	22 1/4 in. (565 mm.)
Whip Material	17-7 Stainless Steel, Black Chrome					
Base Material	ASA with TPE overmold grip ring					
Mounting Application	NMO mount					

Applications  
Public Safety/LMR/P25/TETRA  
ISM/SCADA/Utilities, Railroad/Train Control

- Durable and Highly Conductive Black Chrome Finish
- Tightly Wound Phasing Coil Delivers Flexibility while Resisting Low Hanging Obstructions
- Open Coil Whip Affords Higher Power Handling Capability
- Brass BETA's Increase Operational Bandwidth up to 15%
- Durable ASA Base with TPE Overmold Grip Eases Antenna Install and Removal

EM-M11009 746-960 MHz



EM-M11003 763-869 MHz



EM-M11010 850-902 MHz



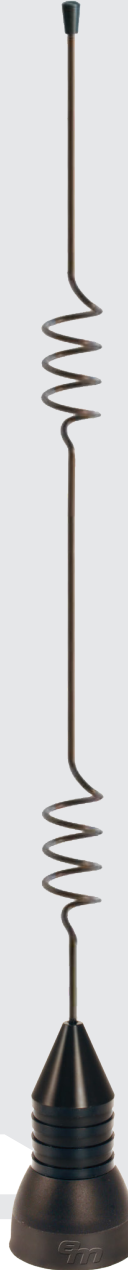
EM-M11008 806-894 MHz



EM-M11004 890-960 MHz



EM-M11014 902-928 MHz

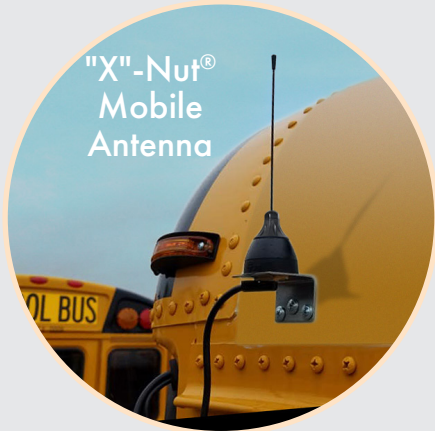


"X"-Nut® Quarterwave Antenna

Exploded view showing all "X"-Nut® components



- Stylish high-impact, dual shot ASA/TPE base
- Insert molded antenna adapter and brass NMO ring truly eliminates mating concerns of dissimilar metals
- Dual seal construction for weatherproof protection
- Delivers up to 10% more operational bandwidth than comparable low-end chrome nut designs
- Durable black chrome finish for high conductivity and quality appearance
- Easy hand-installation for positive RF connection... No tools required!

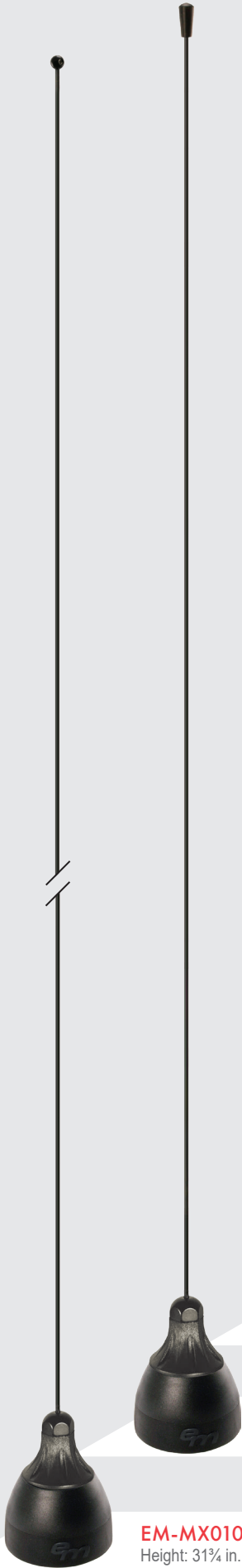


EM-MX0746 746-894 MHz  
Height: 4 in. (102 mm.)

EM-MX0450 450-520 MHz UHF  
Height: 6 5/8 in. (169 mm.)

EM-MX0152 152-162 MHz VHF  
Height: 18 3/4 in. (464 mm.)

EM-MX0108-FT 108-960 MHz Field Tunable  
Height: 31 1/4 in. (806 mm.)



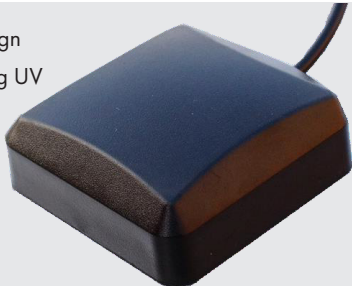
# Combination Mounts/GPS/GLNSS Antenna



## Magnet Mount GPS/GLNSS

Adhesive Option Available

- Low-Profile, Rugged, Compact Design
- High-Impact Polycarbonate Housing UV Stabilized
- IP67 Rated
- High Rejection SAW Filter
- Low Current Consumption
- High strength magnetic mount
- SMA male plug
- 16.4 ft. (5 m.) RG-174/U Cable



EM-MG13004-SP

## GPS/GLNSS (L1) Timing Antenna

1574.4-1610 MHz



Frequency Band	1575.42-1610 MHz
VSWR	<2.0:1
Gain	1575 MHz 30 ± 3 dB 1610 MHz 29 ± 3 dB
Noise Figure	3.5 dB max
Oper. Voltage Vdc	3 - 5.5 V
Current Drain Idc	8+3 mA
Rejection Out of Band	60 dB
DC Injection	Coaxial feed cable center conductor
Mechanical Specifications	
Height	4.9 in. (124.8 mm.)
Width	3.13 in. (80 mm.)
Connector	TNC Jack

- High selectivity dual filter RF architecture eliminates high power RFI operating within multi-located base station environment
- Impact resistant ASA radome
- Rugged die-cast aluminum base
- Integrated Bulkhead, TNC Jack
- IP67 Rated
- 3/4 in. NPT and 1"-14 marine mount compatible
- UV resistant/cool gray for reduced visibility

## NMO/GPS/GLNSS Combination Mount

RG-58/U or Low Loss 195 Cable

- Low-Profile aesthetics for reduced visibility
- UV Stabilized, High Impact ASA housing
- Rugged aluminum die cast base for high strength mechanical mounting and reliability
- Silicone Rubber gasket and dual O-ring seals for waterproof, high pressure car wash (IP66) applications



EM-MG11006-SP (-195)  
EM-MG11022-SP (-195)

	EM-MG11006-SP EM-MG11006-SP-195	EM-MG11022-SP-195
	GPS (L1) LNA	GPS/GLNSS LNA
Frequency Band	1575.42 ± 3 MHz	1575-1615 MHz
VSWR	<2.0:1	
Gain	30 dB Typical at 5 Vdc	28 dB Typical
Noise Figure	2.0 dB max	1.5 typical, 2.0 dB max
Oper. Voltage (Vdc)	3.0 -5.5 V	2.5 - 5.5 V
Current Drain (Idc)	6.0 -20.0 mA	5.0 - 20.0 mA max
Filter Type	SAW	
Attenuation	35 dB min (L1+50 MHz) 45 dB min (L1 +100 MHz)	28 dB min (DC-1522.5 MHz) 30 dB min (1662.5-3000 MHz)
Power Handling, Input	10 W	
Connector	SMA Plug	
Cable	RG174	
Passive Antenna Element		
Center Frequency Band	1575.42 MHz	1592.5 MHz
Antenna VSWR	1.5:1 max	2.:1 max
Gain	3 dBic	4 dBic
Polarization	RHCP	
Common NMO Mount Specifications		
Frequency Band	30 –1000 MHz	
VSWR	1.5:1 typical	
Power Rating	150 W max	
Overall Length	4.5 in. (114.3 mm.)	
Mounting Application	Bulkhead, ¾ in. thru-hole	
Connector	Sold separately	
Cable	RG58/U (standard) or Low Loss 195 type (suffix -195)	

## LMR and LTE-Poly Pro Flexible Antenna

EM-M20007 698-960 MHz/1710-2700 MHz

EM-M22001 450-520 MHz/746-960 MHz



EM-M20007

EM-M22001

Patent No. US 9,520,640

- Capacitive Coupled Design Optimizes LTE and UHF Signal Performance while Maintaining Low-Profile Tapered Form Factor
- Flexible Elastomeric Polymer Housing Resists High Speed Impact and Damage from Low Hanging Obstructions
- Dust and O-Ring Seals for Reliable High Pressure Car Wash and Waterproof Performance (IP66)
- Next Generation LTE Model Incorporates Expanded Frequency Range and Reduced Height
- Rugged "All Brass" Construction with Black Chrome Finish and Silver Plated Contact Maximizing Conductivity and System Reliability

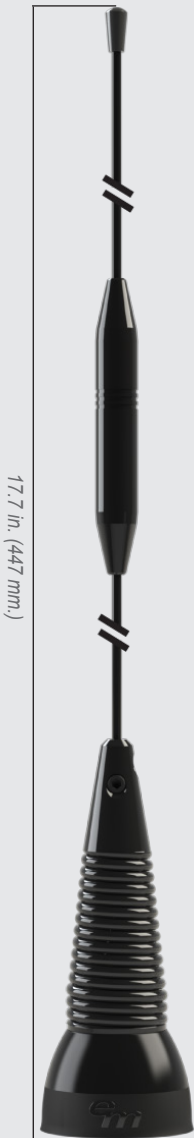
	EM-M20007	EM-M22001
Frequency Band	698-960 MHz / 1710-2700 MHz	450-520 MHz / 746-960 MHz
VSWR	1.5:1 typical, 2:1 max	
Gain	2 dBi @ 698-960 MHz 3 dBi @ 1710-2100 MHz 5 dBi @ 2100-2700 MHz	2 dBi @ 450-520 MHz 2 dBi @ 746-960 MHz
Power Rating	100 W	150 W
Ground Plane	Required	

# Multi-Band Mobile Antenna

## Tri-Band IP67 Rated Roof Mount Antenna

EM-M43002

150-162/450-490/763-870 MHz



- Stylish High-Impact, Dual Shot ASA/TPE Base Eliminates Ingress
- Insert Molded NMO Brass Base for Superior Performance, Eliminating Dissimilar Metal Corrosion
- High Strength, Impact-Resistant 17-7 Black Chrome SS Spring
- Dual Seal Design Provides IP67 Ingress Protection
- Hand Torque Installation Maintains Reliable RF Connection
- Removable Whip Protects NMO Contacts During Vehicle Wash
- Durable Black Chrome Finish for High Conductivity, Quality, and Covert Appearance

	EM-M43002
Frequency Band	150-162/450-490/763-870 MHz
VSWR	<2:1 (150-162, 450-470, and 763-870 MHz) <2.5:1 (470-490 MHz)
Gain	Utility @ 150-162 MHz 5 dBi @ 450-490 MHz 4 dBi @ 763-870 MHz
Power Rating	100 W
Ground Plane	Required
Mechanical Specifications	
Height	17.7 in. (447 mm.)
Mounting Application	NMO mount



# Multi-Band Duplexed Antenna Solutions

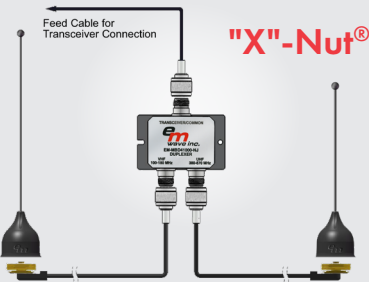
**EM-MBD41000-NJ** 100-180 MHz/380-870 MHz

- N-Jack Connectors
- Low Insertion Loss, All Bands
- High Power Handling
- 50 dB Port-to-Port Isolation
- Full Duplex/Bi-Directional Operation for Signal Combining or Splitting
- Specifically Designed to Augment Multi-Band LMR Applications



## Dual Band

EM-MBD41002

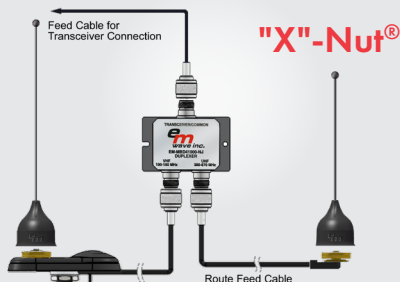


- 108-174 MHz / 380-870 MHz
- Dual Band configuration for all LMR/Public Safety Bands, VHF through 870 MHz

Kit Includes	Qty
Duplexer (VHF/UHF-870 MHz)	1
N Male Connectors	3
Low Loss 195 NMO Cable	1
RG-58/U NMO Cable	1
EM-MX0108-FT Antennas	2
RG-58/U Feed Cable	1

## Dual Band w/GPS

EM-MBD41003

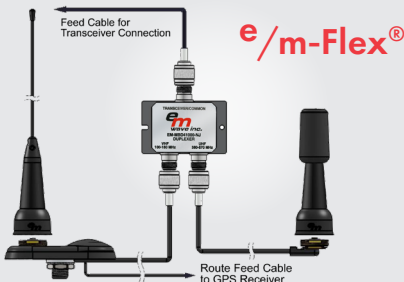


- 108-174 MHz / 380-870 MHz / + GPS
- Dual Band configuration for all LMR/Public Safety Bands, VHF through 870 MHz including GPS

Kit Includes	Qty
Duplexer (VHF/UHF-870 MHz)	1
N Male Connectors	3
Low Loss 195 NMO Cable	1
EM-MG11006-SP Mount NMO/GPS	1
EM-MX0108-FT Antennas	2
RG-58/U Feed Cable	1

## Tri Band w/GPS

EM-MBD41004



- 108-174 MHz / 450-520 MHz / 746-870 MHz / +GPS
- Complete Tri-Band coverage for all LMR/Public Safety Bands operating in VHF 108-174 MHz, UHF 450-520 MHz and 746-870 MHz including GPS

Kit Includes	Qty
Duplexer (VHF/UHF-870 MHz)	1
N Male Connectors	3
EM-M11001-195 to Low Loss 195 NMO Cable	1
EM-MG11006-SP Mount NMO/GPS	1
EM-M22001 (UHF/700-900 MHz)	1
RG-58/U Feed Cable	1

# LTE Combo Antenna Solution

EM-MGLTE-ICK01-Kit Includes	Description
EM-MG11006-SP-195	NMO/GPS Combo Mount, SMA (GPS) & RP-SMA (LTE) plug connectors
EM-M11001-195	NMO Mount, RP-SMA Connector
EM-M20007	LTE Poly Pro flexible antenna

OEM-Direct Replacement External/Vehicle Mounted LTE Combo Antenna Solution



# Mobile/Fixed Station Antenna

ISM

Mobile/Fixed Station Antenna

ISM Band 902-928 MHz



EM-A11015 Black, EM-A11016 White, EM-A11015-SP Black, EM-A11016-SP White

- Tamper resistant bulkhead mount type
- Low Profile: Minimizes visual impact for interior / exterior fixed point applications
- Rugged dual seal design for exterior mobile and fixed point installations where ultra-reliable waterproof performance is required
- UV stabilized, high impact radome
- Silicone compression pad provides maximum weatherproof seal against the bulkhead

LTE

Mobile/Fixed Station Antenna

Broadband/Multiband

698-960 MHz  
1710-2200 MHz  
2200-2700 MHz



EM-A20003-SP Black, EM-A20004-SP White

- LTE/4G performance
- Surface mount applications
- Aesthetic/tamper resistant design
- Low-profile to minimize visual impact
- UV stabilized, high impact radome

Broadband/Multiband

746-960 MHz  
1710-2200 MHz  
2200-2700 MHz



EM-A40001 Black, EM-A40002 White

- LTE, LMR, Cellular/PCS, UMTS, WiFi, Wimax
- Tamper resistant bulkhead mount type
- Low profile for interior/exterior fixed point applications
- Rugged dual seal design for exterior mobile and fixed point installations where ultra-reliable waterproof performance is required seal against the bulkhead
- O-ring seal for reliable waterproof construction and installation

	EM-A11015 EM-A11016	EM-A11015-SP EM-A11016-SP
Frequency	902-928 MHz	
VSWR	1.5:1, max	
Gain	3 dBi	
Power Rating	10 W	
Polarization	Linear, vertical	
E-Plane	55°, nominal	
H-Plane	Omnidirectional	
Mechanical Specifications		
Height	3 in. (76.2 mm.)	
Diameter	1.67 in. (42.4 mm.)	
Radiator	PCB	
Housing Material	ASA	
Mounting Application	5/8 DD x 1/4 in. (6.35 mm.) max, Bulkhead/panel mount	3/8 in. (M-10) Hole, Bulkhead
Cable	2 ft. (610 mm.) Low Loss 100	
Connector	N Jack (female)	SMA Plug



	EM-A20003-SP EM-A20004-SP	EM-A40001 EM-A40002
Frequency Band (1)	2 dBi Gain @ 698-960 MHz	2 dBi Gain @ 746-960 MHz
Band (2)	2 dBi Gain @ 1710-2200 MHz	
Band (3)	3.5 dBi Gain @ 2200-2700 MHz	
VSWR	<2.2:1 @ 698-710 MHz <2:1 @ 710-960 MHz <2:1 @ 1710-2700 MHz	2:1, max
Power Rating	10 W	
Polarization	Linear, vertical	
E-Plane	50°, nominal	35-50°, nominal
H-Plane	Omnidirectional	
Mechanical Specifications		
Height	3 in. (76.2 mm.)	
Diameter	1.67 in. (42.4 mm.)	
Radiator	PCB	
Housing Material	ASA	
Mounting Application	3/8 in. (M-10) Hole, Bulkhead	5/8 DD x 1/4 in. (6.35 mm.) max, Bulkhead/panel mount
Cable	2 ft. (610 mm.) Low Loss 100	
Connector	SMA Plug	N Jack (female)

Base & Fixed Station Antenna

Multi/Wide Band iDAS Indoor Ceiling Mount Antenna

698-6000 MHz

	EM-B40002-NJ
Frequency Band	698-6000 MHz
VSWR	<2:1 698-3500 MHz <2.5:1 3500-6000 MHz
Gain:	698-960 MHz 2 dBi 1710-2100 MHz 3 dBi 2100-2700 MHz 3.5 dBi 3500-3700 MHz 2.5 dBi 5200-5900 MHz 3 dBi
H-Plane HPBW	Omnidirectional
Polarization	Vertical
Power Rating	50 W
PIM Rating (2x43dBm)	<-150 dBc

Ground plane not required

- LTE/4G/5G performance
- Surface mount applications
- Aesthetic/tamper resistant design
- Low-profile to minimize visual impact
- UV stabilized housing



EM-B42002-NJ

LTE

PIM Rated



Fiberglass Base Station Antenna

EM-BFG11905-NJ  
EM-BFG11905-NP  
902-928 MHz

- High input power handling
- All brass/silver plated feed and radiator structure
- High strength filament wound fiberglass radome (White)
- Includes hardware for 1½ inch offset pipe mast mounting

ISM

	EM-BFG11905-NJ	EM-BFG11905-NP
Frequency Band	902-928 MHz	
VSWR	<2:1	
Gain	5 dBi	
Power Rating	100 W	20 W
Polarization	Vertical	
Horizontal HPBW	Omnidirectional	
Connector	Type N Jack	N Plug
Height	20.7 in. (525 mm.)	20.78 in. (528 mm.)
Width (dia.)	1.2 in. (31 mm.)	0.8 in. (20 mm.)



EM-BFG11905-NJ

EM-BFG11905-NP

EM-BFG40006-NJ 698-960/1710-2500 MHz  
EM-BFG11702-NJ 746-870 MHz

- High efficiency performance all LTE bands 698-2500 MHz
- High input power handling
- All brass/silver plated feed and radiator structure
- High strength filament wound fiberglass radome (White)
- Includes hardware for 1½ inch offset pipe mast mounting

4G/LTE

	EM-BFG40006-NJ	EM-BFG11702-NJ
Frequency Band	698-960/ 1710-2500 MHz	746-870 MHz
VSWR	<1.8:1 typ. 2:1 max	<1.5:1
Gain	2 dBi / 3 dBi	2 dBi
Power Rating	150 W	
Polarization	Vertical	
Horizontal HPBW	Omnidirectional	
Vertical HPBW	65 - 72°, typical	
Connector	Type N Jack	
Height	18.1 in. (459 mm.)	
Width (dia.)	1.6 in. (41 mm.)	



EM-BFG40006-NJ

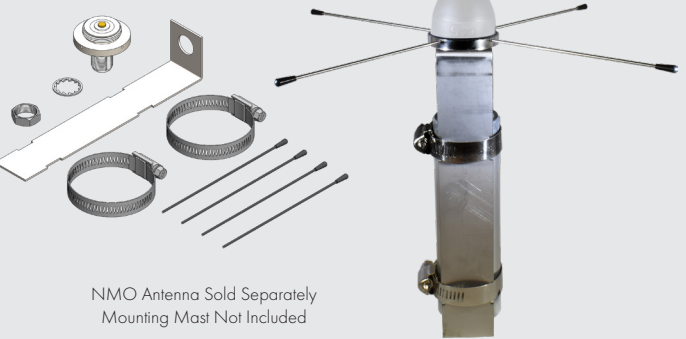
EM-BFG11702-NJ

Base & Fixed Station Antenna

Ground Plane Kit

EMBKT-BSA100  
EMBKT-BSA800

- For VHF/UHF/800-900 MHz Antennas (sold separately)
- High grade 316 stainless steel and nickel plated brass construction provides durability and resistance to environmental corrosion
- Directly mounts to 1.6 in. to 2½ in. mast diameter
- 8 in. high x 10.83 in. wide



NMO Antenna Sold Separately  
Mounting Mast Not Included

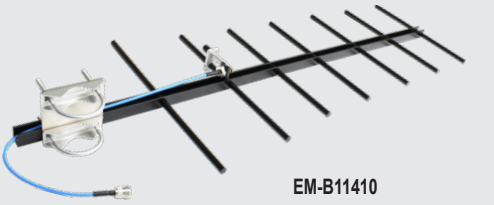


Utilities

Yagi Fixed Station Antenna



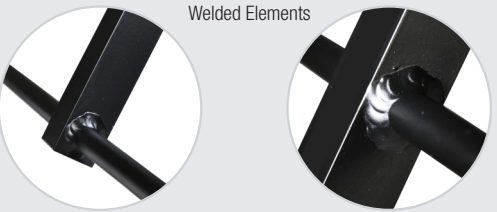
EM-B11809  
EM-B11909 (Non-welded)



EM-B11410

	EM-B11410 7 Element	EM-B11809 6 Element	EM-B11909 Non-welded
Frequency Band	450-470 MHz	760-870 MHz	890-960 MHz
VSWR	<1.6:1, typical, 2:1 max		<1.5:1, typical, 2:1 max
Gain	10 dBi	9.5 dBi	
Power Rating	150 W	125 W	
Dimensions	35.4 x 12.9 x 1.65 in. (900 x 328 x 42 mm.)	24 x 7.52 x 1.65 in. (610 x 191 x 42 mm.)	
Antenna Material	6000 Series Aluminum / Black powder coat finish		
Mounting Material	Stainless Steel & Steel / Dacron Finish		
Mounting Application	Pole / Mast Mount		
Cable / Connector Type	RG-141 UV & Plenum type cable / N Jack		

- Rugged Aluminum Construction
- UV and Environmentally Resistant Black Powder Coat Finish
- Boom: 3/4" 6063 Aluminum
- Radiators: 3/8" 6061 Aluminum, Solid Rod
- V or H Polarization Mountable
- Mounting Hardware Included
- Integrated Feed Cable, RG-141 Plenum Type

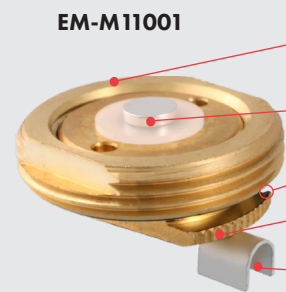


Welded Elements



# NMO Mounts and Cable Assemblies

## NMO 3/4" Hole Mount Assembly



- All BRASS components for optimal conductivity and performance
- SILVER plated contact maximizes conductivity
- High Strength KNURL
- Heavy duty mounting claw for reliable STRENGTH and ground contact
- RG-58/U cable & Low Loss 195 cable types

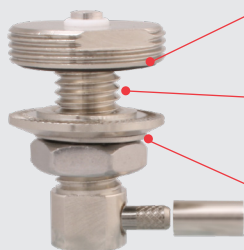


Attached Cable Models	Standard Low Profile			
	EM-M11001-058	EM-M11001-195	EM-M11001-058-35	EM-M11001-195-35
Frequency Band	30-1000 MHz			
VSWR	1.5:1 typical			
Power Rating	100 W @1000 MHz			
Cable Type	RG-58/U	Low Loss 195	RG-58/U	Low Loss 195
Cable Length	17 ft. (5.1 m.) standard length		35 ft. (10.67 m.)	35 ft. (10.67 m.)
Connector	Sold Separately			
Mounting Material	Brass			

## Thick Panel Style NMO Mount

Up to  
1/2 in. (12.7 mm.)  
Thickness

### EM-MTR11001



- Self-adjusting NMO locking nut eliminates guesswork and decreases installation time
- All brass and stainless steel components for maximum reliability and corrosion resistance
- Non-rotational heavy-duty centering washer ensures perfect hole alignment while optimizing non-slip clamping pressure

#### Attached Cable Models

Attached Cable Models	Thick Panel Series	
	EM-MTR11001-058	EM-MTR11001-195
Frequency Band	30-1000 MHz	
VSWR	<1.3:1 typical	
Power Rating	150 W for VHF 100 W for 700-1000 MHz	
Cable Type	RG-58/U	Low Loss 195
Cable Length	17 ft. (5.1 m.) Standard length	
Connector	Sold separately	
Mounting Material	Brass and stainless steel with bright nickel finish	

## Connectors

All connectors fit RG-58/U & 195 Type Cable



EMPL259-CRIMP

- PL-259 connector solder crimp center pin



EMMP-058

- Mini-UHF male plug connector



EMBP-058

- BNC male plug connector



EMNP-058

- N male plug connector



EMSP-058

- SMA male plug connector



EMTP-058

- TNC male plug connector

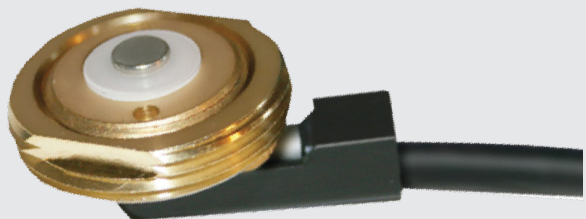


EMQP-058

- QMA male plug connector

# NMO FME/QMA Mounts & Cable Assemblies

## NMO Mount FME/QMA Cable Assembly



EM-M11001-QP Series  
NMO w/ QMA Connector



EM-M11001-FME Series  
NMO w/ FME Connector

	EM-M11001-FME-058	EM-M11001-FME-195	EM-M11001-QP-058
Frequency Band	30-1000 MHz		
VSWR	1.5:1 typical		
Power Rating	100 W @1000 MHz		
Cable Type	RG-58/U	Low Loss 195	RG-58/U
Cable Length	17 ft. (5.1 m.) standard length; 35 ft. (10.67 m.) available		
Connector	FME	FME	QMA
Mounting Material	Brass		

## Thick Mount FME/QMA Cable Assembly



EM-MTR11001-QP Series  
Thick Mount w/ QMA Connector



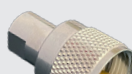
EM-MTR11001-FME Series  
Thick Mount w/ FME Connector

	EM-MTR11001-058	EM-MTR11001-195	EM-MTR11001-FME-058	EM-MTR11001-QP-058
Frequency Band	30-1000 MHz			
VSWR	<1.3:1 typical			
Power Rating	150 W for VHF 100 W for 700-1000 MHz			
Cable Type	RG-58/U	Low Loss 195	RG-58/U	
Cable Length	17 ft. (5.1 m.) standard length			
Connector	Sold separately		FME	QMA
Mounting Material	Brass and stainless steel with bright nickel finish			

## FME Adapter Options



EMFME-MP  
FME to Mini-UHF



EMFME-PL  
FME to PL259



EMFME-QP  
FME to QMA



EMFME-TP  
FME to TNC

# Mounts, Brackets & Cable Assemblies

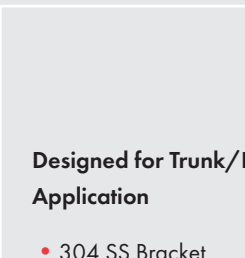
## Mounting Brackets for Mirror/Trunk/Fender and Mast Installations



**Stainless Steel, Right Angle Mount**

- Accommodates 5/8 or 3/4 inch thru hole mounting for Bulkhead N Type, fixed station antennas
- Mate with EM-BSA001 to convert mobile ground plane independent antennas for base station, fixed point applications

	EMBKT-016SS	EMBKT-019SS
Bracket Material	Stainless Steel	
Mounting Hole Size	5/8 in.	3/4 in.



**Designed for Trunk/Fender Mount Application**

- 304 SS Bracket
- All Stainless Steel Hardware included
- 3/4" Antenna Mount Clearance Hole
- Applications: Vehicular Antenna Trunk Mount

	EMBKT-LMR34
Bracket Material	Stainless Steel
Mounting Hole Size	3/4 in.

## 5/8 in. Alternative Mount for GPI Antennas


- Frequency independent operation for all NMO type antennas
- Rugged all brass construction with bright nickel plating
- Integrated NMO sealing surface eliminates ingress potential between antenna and mounting surface or bulkhead
- Integrated bulkhead O-ring seal to protect electrical enclosures
- Mounts up to 11/32 in. thickness
- High power handling



**EM-BSA001  
NMO to N Type Jack**

Frequency Band	0 to 3000 MHz
VSWR	<1.2:1
Power Rating	200 W
Overall Length	1.54 in. (39 mm.)





**EM-MAG-058  
Magnet Mount**

- Magnet Mount Base with NMO mount

	EM-MAG-058	EM-MAG-195	EM-MAG-058-FME
Frequency Band	Up to 1000 MHz		
Magnetic Pull Force Retention	>30 lb. (13.6 kg.), includes protective UHMW PE pad		
Material Finish	High strength 14 ga. steel, black powder coat		
Mounting Application	NMO mount		
Connector	Sold Separately		FME
Cable	RG-58/U 17 ft. (5.1 m.)	LL 195 type 17 ft. (5.1 m.)	RG-58/U 17 ft. (5.1 m.)

**EM-MAG-058-HD  
Heavy Duty Magnet Mount**

- All black, low-profile, 3 in. dia.
- Magnetic Base: Heavy-duty 14ga Steel
- Surface Protection: Optional rubber boot

	EM-MAG-058-HD	EM-MAG-195-HD
Frequency Band	Up to 1000 MHz	
Magnetic Pull Force Retention	>50 lb. (22.7 kg.), includes optional rubber boot	
Material Finish	High strength 14 ga. steel, black powder coat	
Mounting Application	NMO mount	
Connector	Sold Separately	
Cable	RG-58/U 17 ft. (5.1 m.)	LL 195 type 17 ft. (5.1 m.)

# Replacement Parts

## Replacement Bases



**EM6A-01RP**  
Replacement base for  
EM-M & EMFLX-M10001  
EM-M11003  
EM-M11004  
EM-M11005  
EM-M11008  
EM-MX All Models



**EM6A-04RP**  
Replacement base for  
EM-M10004  
EMFLX-M10004  
EM-M10014  
EMFLX-M10014



**EM6A-05RP**  
Replacement base for  
EM-M10003  
EMFLX-M10003  
EMFLX-M10007



**EM6A-06RP**  
Replacement base for  
EM-M10003-GPI  
EMFLX-M10003-GPI  
EMFLX-M10007-GPI




**EM6A-07RP**  
Replacement base for  
EM-M10004-GPI  
EMFLX-M10004-GPI  
EM-M10014-GPI  
EMFLX-M10014-GPI



**EM6A-11RP**  
Replacement base for  
EMFLX-M10008-WB

## Replacement Whips

EM2A-08RP	Whip 30" black chrome for EM-M10001 & EMFLX-M10001
EM2A-11RP	Whip 55" tapered black chrome for EM-M10004, EM-M10004-GPI, EMFLX-M10004, EMFLX-M10004-GPI
EM2A-15RP	Whip 40" tapered open coil, UHF 5 dB gain for EMFLX-M10007
EM2A-16RP	Whip 46" tapered black chrome, for EM-M10014, EM-M10014-GPI, EMFLX-M10014, EMFLX-M10014-GPI
EM2A-17RP	Whip 15" black chrome for EM-M10003, EMFLX-M10003, EM-M10003-GPI & EMFLX-M10003-GPI
EM2A-152RP	Whip assembly "X"-Nut® model EM-MX0152
EM2A-450RP	Whip assembly "X"-Nut® model EM-MX0450
EM2A-746RP	Whip assembly "X"-Nut® model EM-MX0746
EM2A-890RP	Whip assembly "X"-Nut® model EM-MX0890
EM2A-108-FTRP	Whip assembly "X"-Nut® model EM-MX0108-FT



**Base O-Ring**  
EM9-02RP  
(25 pack) fits all EM6A type bases

## Replacement Springs



**EMFLX3A-01RP**  
Elastomeric Polymer, Proprietary Spring mates with any base using a standard 1/4 - 20 thread and accepts a whip diameter of 0.1 inch (2.5 mm.).  
Replacement for  
EMFLX-M10001  
EMFLX-M10003  
EMFLX-M10003-GPI  
EMFLX-M10004  
EMFLX-M10004-GPI  
EMFLX-M10014  
EMFLX-M10014-GPI



**EM3A-01RP**  
Black Chrome SS Spring mates with any base using a standard 1/4 - 20 thread and accepts a whip diameter of 0.1 inch (2.5 mm.).  
Replacement for  
EM-M10001  
EM-M10003  
EM-M10003-GPI  
EM-M10004  
EM-M10004-GPI  
EM-M10014  
EM-M10014-GPI





# Handheld Portable Antenna

## VHF (OEM REPLACEMENT)

<b>FREQUENCY</b>
136-174 MHz
<b>GAIN</b>
1.8 dBi
<b>LENGTH</b>
6.4"/165 mm.
<b>CONNECTOR</b>
MXI
<b>APPLICATION</b>
ICOM™ Two-Way Radios

**EM-P90019-MXI-136**  
Available in 25 pk

<b>FREQUENCY</b>
146-162 MHz
<b>GAIN</b>
Unity
<b>LENGTH</b>
4.25"/108 mm.
<b>CONNECTOR</b>
SFK
<b>APPLICATION</b>
Kenwood™ OEM Replacement

**EM-P90021-SFK-146**  
**EM-P90021-SFK-162**  
Available in 25 pk

<b>FREQUENCY</b>
150-174 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
Unity
<b>BANDWIDTH</b>
24 MHz
<b>LENGTH</b>
11.19"/284 mm.
<b>CONNECTOR</b>
SM, SF, SFK

**EM-P90918**  
Available in 25 pk

## UHF

<b>FREQUENCY</b>
450-470 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
2 dBi
<b>LENGTH</b>
8.0"/203 mm.
<b>CONNECTOR</b>
0° & 90°, BP
<b>APPLICATION</b>
WAP Indoor

**EM-P90009**

<b>FREQUENCY</b>
380-520 MHz
<b>VSWR</b>
<2.0:1 Typical <2.6:1 Max at 380 MHz
<b>GAIN</b>
2.0 dBi
<b>LENGTH</b>
6.1"/153 mm. max.
<b>CONNECTOR</b>
MD, SF, SFK

**EM-P90016**

<b>FREQUENCY</b>
400-470 MHz
<b>VSWR</b>
<2.0:1
<b>GAIN</b>
1.8 dBi
<b>LENGTH</b>
3.4"/86 mm.
<b>CONNECTOR</b>
MXI
<b>APPLICATION</b>
ICOM™ Two-Way Radios

**EM-P90018-MXI-400**  
Available in 25 pk

<b>FREQUENCY</b>
400-470 MHz
<b>VSWR</b>
<2.0:1
<b>GAIN</b>
1.8 dBi
<b>LENGTH</b>
3.1"/80 mm.
<b>CONNECTOR</b>
SFK
<b>APPLICATION</b>
Kenwood™ Two-Way Radios

**EM-P90017-SFK-400**  
Available in 25 pk

## 700/800 MHz (OEM REPLACEMENT)

<b>FREQUENCY</b>
698-870 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
3 dBi
<b>LENGTH</b>
6.1"/153 mm. max.
<b>CONNECTOR</b>
MD, SF, SFK
<b>APPLICATION</b>
Portable Radio

**EM-P90110**

<b>FREQUENCY</b>
698-870 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
2 dBi
<b>LENGTH</b>
4.4"/111 mm. max.
<b>CONNECTOR</b>
MD, SF, SFK
<b>APPLICATION</b>
Portable Radio

**EM-P90111**

<b>FREQUENCY</b>
902-928 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
2 dBi
<b>LENGTH</b>
7.7"/196 mm.
<b>CONNECTOR</b>
TR
<b>APPLICATION</b>
WAP Indoor

**EM-P90102**

<b>FREQUENCY</b>
890-960 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
2 dBi
<b>LENGTH</b>
4.4"/111 mm.
<b>CONNECTOR</b>
MD, SF, SFK
<b>APPLICATION</b>
Portable Radio

**EM-P90222**

<b>FREQUENCY</b>
890-960 MHz
<b>VSWR</b>
<2:1
<b>GAIN</b>
3 dBi
<b>LENGTH</b>
6.75"/174 mm.
<b>CONNECTOR</b>
MD
<b>APPLICATION</b>
Portable Radio

**EM-P90220**

## Multi-Band (OEM REPLACEMENT)

<b>FREQUENCY</b>
380-520 MHz 698-870 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
2 dBi
<b>BANDWIDTH</b>
140 MHz 172 MHz
<b>LENGTH</b>
6.1"/153 mm. max.
<b>CONNECTOR</b>
MD, SF, SFK
<b>APPLICATION</b>
Portable Radio

**EM-P91201**

<b>FREQUENCY</b>
136-174 MHz 450-520 MHz 762-870 MHz
<b>VSWR</b>
<2:1 typical; <3:1 @ band edges
<b>GAIN</b>
Unity
<b>LENGTH</b>
10.6"/269 mm.
<b>CONNECTOR</b>
SF (SMA Jack)
<b>APPLICATION</b>
Portable Radio

**EM-P92401-SF**

<b>FREQUENCY</b>
136-174 MHz 1575-1610 MHz GPS/GLNSS
<b>VSWR</b>
2.5:1
<b>GAIN</b>
Unity (VHF) 2 dBi (GPS/ GLNSS)
<b>LENGTH</b>
10.35"/269 mm.
<b>CONNECTOR</b>
SF (SMA Jack)
<b>APPLICATION</b>
Portable Radio

**EM-P92402-SF**

## LTE

<b>FREQUENCY</b>
698-960 MHz 1710-2700 MHz
<b>VSWR</b>
2:1
<b>GAIN</b>
2 dBi / 3 dBi
<b>LENGTH</b>
7.32" 186 mm.
<b>CONNECTOR</b>
0 & 90° Type SM
<b>APPLICATION</b>
WAP Indoor

**EM-P92202**

## 2.4-2.5 GHz

<b>FREQUENCY</b>
2400-2500 MHz
<b>VSWR</b>
<2.0:1
<b>GAIN</b>
5 dBi
<b>LENGTH</b>
6.7"/170 mm.
<b>CONNECTOR</b>
0° & 90°, SF
<b>APPLICATION</b>
WAP Indoor

**EM-P90403**

## Connector Descriptions

**MXI Connector**  
for ICOM™ Two-way Radios

**MD Connector**  
for Harris™ Series

**SF Connector**  
for Motorola™ APX Series

**SFK Connector**  
for Kenwood™ & EF Johnson Series

**SM Connector**  
for BK™ KNG Series



**MD**  
(M7x1)



**SFK**  
SMA (f) Kenwood™ Type



**SF**  
SMA (f) Motorola™ Type



Straight



Right Angle  
0° & 90°



Right Angle  
Fixed (RA)



**SM**  
SMA (m)



**BP**  
BNC (m)



**TR**  
TNC RP Plug



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www.wirelessource.ca



# Hall of Fame - Featured Products

Multi / Wide Band iDAS Antenna  
689-2700 MHz / 698-6000 MHz  
EM-B42001-NJ / EM-B42002-NJ  
EM-B40004-NJ / EM-B40005-NJ  
5G READY

NMO 1/2" Mount  
FME / QMA Cable Assembly Series  
LMR - Land Mobile Radio  
EM-M11001-XXX-FME / EM-M11001-XXX-FME / EM-M11001-XXX-GP

700 / 800 MHz Antennas  
746-960 MHz / 746-894 MHz / 698-896 MHz  
Public Safety / Public Works / Utilities / ISM  
EM-M11009 EM-MX0746 EM-M11017

Low Profile / Multi-Band Antenna  
EM-M20007 698-900 MHz / 1710-2700 MHz  
EM-M20001 for 450-520 MHz / 700-900 MHz NMO Apps  
Public Safety / LTE / T-Band / IoT / Transportation

Fiberglass Base Station Antennas  
Fixed Station Public Safety / Commercial  
Industrial / IoT / LTE / Wi-Fi  
EM-BP011900-NP / EM-BP011900-NJ  
EM-BP040004-NJ / EM-BP011900-NJ

Tri-Band IP67 Rated  
Roof Mount Antenna  
150-162 MHz / 450-490 MHz / 763-870 MHz  
Public Works / Public Safety / Transportation / Utilities  
EM-M43002

Duplexer for Multi-band LMR Applications  
105-180 MHz / 380-870 MHz  
Optimal in-band performance & low insertion loss  
EM-MBD41000-NJ

LTE Antennas  
Mobile / Fixed Station Antenna 902-928 MHz  
Broadband / Multiband Antenna 698-2700 MHz  
EM-A11015-SP / EM-A11016  
EM-A20003-SP / EM-A40002  
SCADA / Energy-Utilities / IoT / NB-IoT / LoRa

Wide Band Quarter-Wave Antenna  
No Tuning Required  
144-174 MHz  
Public Safety / Commercial / Industrial LMR  
EMFLX-M10008-WB

"X-Nut" Series  
Mobile Antenna IP67 Rated  
VHF / UHF / 700 MHz  
Stylish High-gain / Clear Q-shield / Dual Steel Base  
Public Safety / Commercial / Industrial LMR  
EM-MX0108-FT / EM-MX0102  
EM-MX0450 / EM-MX0146

GPS Antenna Series  
Combination 1/2" Hole Mount  
1575.42 ± 3 MHz / 1575-1615 MHz  
Public Safety / Commercial / Industrial LMR / Navigation  
EM-MG11006-SP / EM-MG13004-SP

VHF Roof Mount Antennas  
132-174 MHz / 144-174 MHz / 152-162 MHz  
EM-M10004-L5 / EMFLX-M10014 / EM-MX0152

NOTES:





***E/M Wave, Inc.*** engineers and markets a growing line of unique mobile and fixed station communications antenna products. Our primary focus is to maximize the ***Antenna Value*** in every product to meet or exceed customer expectations! We incorporate unique quality features that deliver more ***Value*** that our customers can understand, experience, and appreciate. These are the attributes that set us apart from the competition. It's a ***Quality*** effort, and it's the right thing to do!



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10221 Sweet Valley Dr • Unit 1  
Valley View, OH 44125  
216-453-1160  
[sales@emwaveinc.com](mailto:sales@emwaveinc.com)  
[www.emwaveinc.com](http://www.emwaveinc.com)