



## EM-MBD41003 Dual Band Duplexed Antenna Kit w/GPS 108-174 MHz / 380-870 MHz

**Kit Includes (no substitutions<sup>†</sup>):**

- Duplexer (VHF/UHF-870 MHz)
- N (m) Connectors (3 ea.)
- Low Loss 195 NMO Cable (1 ea.)
- EM-MG11006-SP NMO/GPS (1 ea.)
- Field Tunable Antennas
  - EM-MX0108-FT (2 ea.)
- RG-58/U Feed Cable (1 ea.)
- Installation Instructions

*Transceiver Feed Cable Connector sold separately*

*<sup>†</sup>Antenna Upgrades sold separately*

### Features

- Optimal in-band performance with precision 50 ohm impedance and low insertion loss.
- Expandable from Dual Band to full Tri-Band coverage for ALL LMR/Public Safety Bands, VHF through 870 MHz.
- Scalable to meet system performance requirements for:
  - Frequency
  - Bandwidth
  - VSWR
  - Gain
- Upgrades/ Interchangeability –
  - Accommodates user/installer preference for ¼ wave, ½ wave, Dual Element Collinear and GPI antennas without compromising required system gain.
- <sup>‡</sup>Model EM-MG11006-SP NMO/GPS Combination Mount included for VHF/GPS band antenna installation.

<sup>‡</sup>Reference Model EM-MG11006-SP for GPS Performance Specifications.

### Electrical Specifications

Frequency Band (VHF)	100-180 MHz
Frequency Band (UHF)	380-870 MHz
VSWR (All Ports)	≤1.6:1
Impedance	50Ω
Isolation (VHF↔UHF-870)	≥50 dB
Insertion Loss	≤0.2 dB (100-180 MHz)
	≤0.3 dB (380-520 MHz)
	≤0.5 dB (746-870 MHz)
Power Rating	150W (100-180 MHz)
	100W (380-520 MHz)
	75W (746-870 MHz)
Temperature, Operating	-40° to 85° C

### Mechanical Specifications

Dimensions (Duplexer)	3.27 x 2.1 x 1.1 in. (83 x 53 x 28mm)
Connectors (All)	Type N
Feed/NMO Cable Length	17 ft. (5.1m) each
Duplexer Mounting	Interior Only, #8 PHMS (2 ea. sold separately)
Antenna Mounting	¾ in. Thru-Hole NMO Mounts
Antenna Height /Type	Frequency Adjustable/Field Tunable ¼ Wave