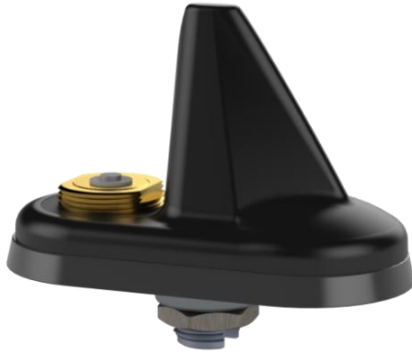




EM-MG51002-QP

3-in-1 Combination Antenna
ALL-BAND P25 Mobile Applications
NMO + Wi-Fi 6E + GNSS
3/4" Direct Hole Mount



Motorola® APX® 8500

NMO Mount Electrical Specifications

Frequency Band ¹	30 – 1000 MHz
VSWR ²	1.5:1 typical
Impedance	50Ω
Power Rating	100 W

1. Broader Bandwidth Available.

2. Antenna / Frequency Dependent

Wi-Fi 6E Antenna Electrical Specifications

Frequency Bands	2.4-2.5 / 5.2-7.125 GHz
VSWR	2:1 max
Impedance	50Ω
Power Rating	15 W, max
Polarization	Vertical
Peak Gain (Eff.)	4.5 dBi @ 2.4-2.5 GHz (60%) 1 dBi @ 5.2-5.9 GHz (43%) 2.5 dBi @ 6.0-7.125 GHz (44%)

GNSS LNA and Filter Specifications

BEIDOU, GPS, GALILEO, QZSS, GLNSS

Frequency Band (L1)	1560 – 1610 MHz
Input / Output VSWR	2.0:1 max
Impedance	50Ω
Gain	27±2 dB
Noise Figure (dB)	1.6 dB, max
Operational Voltage (Vdc)	2.7 - 5.5 V
Current Drain (Idc)	15±2mA (@5Vdc)
Filter Type	SAW
Attenuation (DC-1510 MHz)	34 dB min
Attenuation (>1660 MHz)	34 dB min

Passive Antenna Element

Frequency Band (L1)	1560-1610 MHz
Antenna VSWR	2:1 max
Impedance	50Ω
Polarization	RHCP

Mechanical Specifications

Mounting Application	Bulkhead, 3/4 in. Thru-Hole	Mobile Radio Connectors	Cables [L]
Ant. Feed Cable NMO	RG-58/U; 0.3m (FME, J)	NMO RF Antenna, QMA (P)	RG-58/U; [16 ft. (4.9 m)]
Ant. Feed Cable Wi-Fi 6E	RG-316/U; 0.3m (SMA, J)	Wi-Fi 6E, QMA (P)	LL195; [16 ft. (4.9 m)]
Ant. Feed Cable GNSS	RG-174/U; 5m (QMA, P)	GNSS, QMA (P)	RG-174/U; [16.5 ft (5m)]
Height	2.76 in. (70.2 mm)	Operating Temperature	-40° to 85° C
Length	4.5 in. (114.3 mm)	Corrosion / Humidity	Salt Fog / 95% RH
Width	2.2 in. (55.9 mm)	Ingress	IP66

NMO Antenna Sold Separately. Specifications Subject to Change without Notification.
 Motorola® APX® are Registered Trademarks of Motorola Trademark Holdings, LLC.