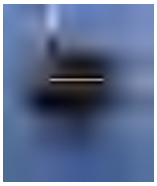
Surface Mount GPS Dual Band

for 802.11 b/g (WiFi) (Pat.Pnd.)

SM0 Body Mount for 802.11 b/g

DM2-2400/1575 Dome Mount



Trunk Lid Mount Option

Mirror Mount Option

- Available for Body/Surface Mount applications
- Operates on 2.4 GHz band with active 26 dB GPS amplifier
- Low profile antennas provide up to 2 dBi gain
- SM0 Body Mount provides optional Mirror Mount or Trunk Lid Mount

If you are diving into AVL applications using 802.11 bands for return data information, you'll want to consider one of these models. These antennas can be mounted to any vehicle's surface or any bulkhead (hole mount).

These antennas provide completely independent dual band operation. The SM0 model provides 2 dBi gain performance for the 2.4 GHz Band. Mirror mount and trunk lid mount options provide alternative no-hole mounting for these antennas.

The DM2 model provides hole mounting only (offset radome) of the antenna. Gain on the 2.4/802.11 band is 2 dBi, and the unit is compact/low profile. Radomes are available in white or black.

GPS performance on all models is 26 dB, with 5 dBi antenna gain. The GPS circuitry has a low noise figure (2.0 dB max) with excellent filter characteristics. No interaction occurs between the bands. Power for the GPS amplifier (3.3 VDC or 5 VDC) and signal is applied through the same cabling directly to the GPS circuit. The antennas are outfitted with 15 feet (4.5 m) of RG-174 cable and SMB plug or SMA connectors for the GPS interface. The 2.4/802.11 band cable supplied is 15 feet (4.5 meters) of RG-58 with a TNC connector. Other connectors and configurations are available upon request, including reverse polarity TNC.

The antennas are enclosed in a weatherproof polycarbonate radome. Everything needed for installation is included.

Model Numbers

Model	Description
SM0-2400/1575	2 dBi Gain Body Mount & GPS
SM-MM	Mirror Mount option for SM0
SM-TM	Trunk Lid Mount option for SM0
DM2-2400/1575	2 dBi Dome Mount & GPS

Please specify connectors at time of order. Note: All models are dual voltage 3.3/5 VDC. Please consult factory for other configurations or options.

Specifications

Frequency:	
802.11/WiFi	2400-2485 MHz
GPS (all models)	1575.42 +/- 2 MHz
2.4 Band Gain:	2 dBi
GPS Gain:	26 dB Amplifier, 5 dBi Antenna
VSWR:	2:1 max over range
Noise Figure:	2.0 dB max, 1.7 dB typical
Operating Temp:	-30° to +80° C
Nominal Impedance:	50 ohms
Amplifier Bias:	Dual 3.3/5 VDC +/-10% (GPS)
Current:	20 mA max, 10 mA typical
SM0 Whip:	Vinyl Cap/Stainless Steel
Cable:	
GPS	RG-174, 15 ft (4.5 meters)
PCS/DCS/2.4	RG-58, 15 feet (4.5 meters)
Case Material:	Polycarbonate
Dimensions:	
DM2	1 1/2"H x 2 7/8" D (38 mm x 73mm)
SM0 2.4	3 1/2" height (89 mm) Unit base is 1" H x 2 5/8" D (25 mm x 67 mm)
Mounting Stud:	
DM2	5/8"D x 1/2"long (16mmx12.7mm)
SM0	3/4"D x 1/2" long (16mmx12.7mm)
Mounting Depth:	
DM2	Mounts to 1/4" surface (6.3 mm)
SM0 2.4	Mounts to 3/16" surface (4.7mm)
Connectors:	TNC, SMB, SMA, MCX, MMCX specified at time of order.