



Multiband 2.4/4.9-6 GHz & GPS
(White shown, black also available)

This multiband Stud mount antenna integrates several broadband/data networks with GPS. The antenna operates on 2.4 WiFi, 5 GHz WiFi, and GPS. The antenna will also operate on 2.4 Video Surveillance, and 4.9 GHz for Public Safety Broadband. The antenna is excellent for any application needing a secure and stealthy antenna.

The design uses a 5/8" feed thru (16 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. The GPS feed of the antennas are outfitted with 15 feet (4.5 meters) of RG-174 cable & SMB or SMA connectors. All connectors are male (plugs). The broadband cable is 15 feet of low loss RF-195 cable (4.5 meters).

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuit has a low noise figure (2.0 dB max) with excellent filter characteristics. Power for the GPS amplifier (2.7-5 VDC) and signal is applied through the same cabling directly to the GPS circuit.

The dome portion of the antenna measures 2.85" D x 1.45" H total (72mm x 37mm). It is made of weatherproof ASA Resin, which is a strong, durable outdoor material with UV stable properties. The antenna is supplied with a weatherseal gasket for the underside and mounting nut.

Surface Mount Multi-band 2.4, 4.9-6 GHz & GPS

- Stud mounts easily to roof, trunk or bulkhead
- High performance GPS with 26 dB active amplifier
- Secure, discreet; mounts to 5/8" hole (16 mm)
- Operates 2.4/5 GHz & 4.9 Public Safety Bands

Model Configurator

DM-W15- - -

Cable/Connector 1

Cable/Connector 2

Color

Cable Length in Inches (eg. 12 or 180)

Example: DM-W15-3A2C-WHT-180

<u>Cable Options:</u>		<u>Connector Options:</u>		<u>Color Options:</u>	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	<u>Connector</u>	<u>Code</u>	<u>Color</u>
1	RG-58	A	TNC	WHT	White
2	RG-174	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		
		D	SMB		
		E	MCX		

(Other Configurations available.)

Specifications

Frequency:	
GPS	1575.42 +/- 2 MHz
2.4 Band	2.4 - 2.5 GHz
4.9 Public Safety	4.9 - 5 GHz
5 GHz Broadband	5 - 6 GHz
2.4/4.9-6 GHz Gain:	2.5 dBi
GPS Gain:	26 dB LNA 5 dBi nominal RHCP Antenna
VSWR:	2:1 max over range
Noise Figure:	2.0 dB max, 1.7 dB typical
Operating Temp:	-40° to +80° C
Nominal Impedance:	50 ohms
Maximum Power:	10 Watts
Amplifier Bias:	2.7 to 5 VDC
Current:	20 mA max, 10 mA typical

Cable:	
GPS	RG-174, 15 ft (4.5 meters)
2.4/5 GHz	RF-195, 15 ft (4.5 meters)
Case:	2.85"D x 1.45"H (72 mm x 37 mm)
Case Material:	White or black ASA
Stud Mounting:	5/8" dia x 3/4" long (16 mm x 19 mm) thread for 3/8" thick (9.5 mm) metal
Hardware:	Locknut and gasket included
Connector:	See above, others available
Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G TIA-329.2-C
Water Ingress:	IPx7