



Multi-Band with GPS
4 separate coaxes

Surface Mount Multiband GSM/CDMA, WiFi, WiMAX or Diversity & GPS

- Mounts easily to roof, trunk or bulkhead
- MultiBand covers all popular worldwide frequency systems from 800 MHz - 2.7 GHz
- 3 RF coax feeds for radio comm channels & separate feed for GPS receiver
- High performance GPS with 26 dB amplifier

This Wide Band model provides high performance operation on two simultaneous GSM or CDMA bands, 2.4 GHz 802.11 bands along with GPS. With three separate RF feeds, diversity configurations can be accommodated for either GSM or WiFi. The surface mount style antennas can be mounted to any vehicle, cargo container or trailer.

The design uses a 3/4" feed thru (19 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. Note, for best performance, the antenna should be mounted on a metal surface/groundplane. For GPS, the antennas are typically outfitted with 15 feet (4.5 meters) of RG-174 cable.

The communications channel cables are 15 feet of low loss RF-195 (4.5 meters). All connectors are male unless requested otherwise. Please contact your sales representative for special lengths or connectors.

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.

The antennas are enclosed in a 4.2"D x 3.2"H weather-proof ASA radome (107 mm x 81 mm), and supplied with all mounting hardware and sealing gasket. The radome color is white, with optional black.

Antenna Model Configurator

SMW----- example - SMW-401-3A3A3A2C

Combo Configuration		800 -2.7 GHz Interface		2.4-2.5 GHz Interface		1.7 -2.7 GHz Interface		GPS Interface	
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
401	Cbl1=800-2.7 GHz	3A	RF-195 & TNC	3A	RF-195/TNC	3A	RF-195/TNC	2C	RG-174/SMA
	Cbl2=2.4 GHz	3B	RF-195 & MiniUHF	3B	RF-195/MiniUHF	3B	RF-195/MiniUHF	2D	RG-174/SMB
	Cbl3=1.7-2.7 GHz	3C	RF-195 & SMA	3C	RF-195/SMA	3C	RF-195/SMA	2E	RG-174/MCX
	Cbl4=GPS	3H	RF-195 & Fakra	3J	RF-195/RevPol SMA	3J	RF-195/RevPol SMA	2F	RG-174/MMCX
		3K	RF-195/RevPol TNC	3K	RF-195/RevPol TNC	3K	RF-195/RevPol TNC	2H	RG-174/Fakra
		3L	RF-195 & SMC					2L	RG-174/SMC

Specifications

Frequency & Gain:

Cable 1	800 - 1250 MHz 3 dBi, 1650 - 2000 MHz 5 dBi, 2100 - 2700 MHz 3 dBi
Cable 2	2400 - 2485 MHz 5 dBi
Cable 3	1700 - 2700 MHz 5 dBi
Cable 4 (GPS)	GPS, 1575.42 +/- 2 MHz 26 dB LNA 5 dBi nominal RHCP, Antenna

VSWR:

Noise Figure: 2.0 dB max, 1.7 dB typical

Operating Temp: -40° to +85° C

Nominal Impedance: 50 ohms

Amplifier Bias: 2.7 to 5 VDC

Maximum Power:

800 - 1900 MHz	20 Watts
1900 - 2500 MHz	10 Watts
Current:	20 mA max, 10 mA typical

Cable:

Cables 1 - 3	Separate RF-195 Cables, 15 ft (4.5 meters)
Cable 3 (GPS)	RG-174, 15 ft (4.5 meters) 4.2"D x 3.2"H (107 mm x 81 mm) White ASA, Black optional
Case:	3/4" dia. x 3/8" long (19 mm x 9mm) for 1/4" thick (6 mm) metal
Case Material:	Nut and gasket included
Mounting:	EN 61373, IEEE 1478, MIL-810G TIA 329.2-C

Hardware:

Shock & Vibration: EN 61373, IEEE 1478, MIL-810G
TIA 329.2-C

Water Ingress: IPx7