

Surface Mount Antenna (Pat.Pnd.)

Dual Band 900/1900 MHz & Universal Multi-Band



Dual-Band Surface Mount



Multi-Band Surface Mount

- Mounts easily to roof, trunk or any bulkhead
- Low Profile dual band combines popular 800/900 bands with PCS/GPRS/DCS
- Multi-Band combines 800 MHz, 900 MHz, 1.8/1.9 GHz and 2.4 GHz bands
- Secure & low profile, under 1" high (25 mm), for Dual Band & 2.5" (64 mm) for Multi-Band

These extremely versatile configurations provide multi-band antennas in low profile housings. The Dual band antenna provides operation on both Cellular and PCS bands. The MultiBand model provides simultaneous operation on all popular systems from 800 MHz all the way to 2.4 GHz. The surface mount style antennas can be mounted to any metal structure, vehicle, cargo container, trailer or ceiling.

Models are available for all of the most popular combinations. Both series can be outfitted with a GPS module for mobile vehicular tracking.

These designs use a 5/8" feed thru (16 mm) for securing to the vehicle. Access to the underside of the body surface is required to aid the installation. The antennas are outfitted with 15 feet (4.5 meters) of cable and a TNC connector. Other cable lengths and connectors are available, please consult factory for details.

The 800/900 MHz Band & PCS operation is provided by a low profile, yet high efficiency air dielectric radiating element. This maintains effective radiation across the

desired frequency range, with omnidirectional coverage. Unity gain performance is maintained.

The antennas are enclosed in a weatherproof polycarbonate radome, and supplied with all mounting hardware and sealing gasket. The dual band series has a height of 0.95" (24 mm), the MultiBand has a height of 2.5" (64 mm). The standard color is white. The Dual Band SM series can also be provided in black or grey radome (polycarbonate).

Model Numbers

Model	Description
SM-900/1900	Surface mount AMPS/CDPD & PCS
SM-837/1900	Surface mount Low SMR & PCS
SM-925/1800	Surface mount EU GSM & DCS
SM-925/1900	Surface mount ISM/Mobitex & PCS
SMM-UMB-3A	Surface Mount Universal Multi-Band

Please specify desired connectors at time of order. Special configurations available, please consult factory for details.

Specifications

Frequency:

PCS/GPRS	1850-1990 MHz
DCS-1800	1710-1880 MHz
Cellular/CDPD	824-894 MHz (AMPS)
Low SMR (Nextel)	806-870 MHz
High SMR/GSM/ISM	870-960 MHz
802.11 b/g WLAN	2400-2485 MHz

Cellular / PCS Gain:

SM-900/1900	Unity or better
SMM-UMB-3A	2 dBi Cellular/Unity 1.7+GHz

VSWR:

2:1 max over range

Operating Temp:

-40° to +85° C

Impedance:

50 ohms

Maximum Power:

10 Watts

Cable:

SM-900/1900	RG-58, 15 ft (4.5 meters)
SMM-UMB	RF-195, 15 ft (4.5 meters)

Case Material:

Polycarbonate

Case Size:

SM-900/1900	4.5"D x .95"H (114 mm x 24 mm)
SMM-UMB-3A	3.5" D x 2.5" H (89 mm x 64 mm)

Mounting Stud:

5/8"D (16 mm)

Mounting Depth:

SM-900/1900	Mount up to 7/32" (5.3 mm) surface
SMM-UMB	Mount up to 1/4" (6.3 mm) surface

Connector:

TNC-male. Please consult factory for other options