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The SMW-PTC Series Antenna was designed for PTC (Positive Train Control) applications. Designed & built with heavy duty construction to survive the rigors of railroad use.

This antenna uses our popular SMW Series platform to combine PTC with WiFi and GPS. As with our other SMW antennas, this antenna contains 3-elements all within the same radome. The first element covers 220-220 MHz, the second element covers 2.4-2.5 GHz and the third covers GPS at 1575 MHz.

The SMW-PTC antennas provide 2 dBi gain on the PTC element, 5 dBi gain on the WiFi element, and 5 dbi gain with a 26 dB amplifier on the GPS element. The antennas will handle 10 watts of power.

The surface mount models use a ³/₄-inch feed thru (1.9 cm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation of the SMW Series. For best performance the antenna should be mounted on a metal surface or ground plane. A mag-mount option is not available.

The antenna is enclosed in a 4.2"D x 3.2"H (10.7 cm x 8.1 cm) weatherproof radome, and supplied with all mounting hardware and a sealing gasket. The radome is available in either black or white.

Surface Mount Multiband PTC 220 MHz, WiFi & GPS

- 3 antennas in 1 antenna housing
- Designed for Positive Train Control (PTC) at 220 MHz along with WiFi and GPS
- Rugged, heavy duty construction

Model Configurator					
SMW-PTC-1 Connector 1 Cable/Connector 2 Cable/Connector 3 Color					
Cable Length in Inches (eg. 12 or 180)					

Example: SMW-PTC-1C3C2C-WHT-180

Specify "SMWG" instead of "SMW" for GPS/Glonass combination antenna.

Cable C	Cable Options:		tor Options:	Color Options:	
<u>Code</u>	Cable	<u>Code</u>	Connector	Code	<u>Color</u>
1	RG-58	Α	TNC	WHT	White
2	RG-174	В	Mini UHF	BLK	Black
3	LL-195	C	SMA		
		J	RP SMA		

(Other Configurations available.)

Specifications			
Frequency & Gain (peak): Cable 1 Cable 2 Cable 3 (GPS)	220-222 MHz, 2 dBi 2400-2485 MHz, 5 dBi 1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP. Antenna	Cable: Cable 1 (220) Cable 2 (WiFi) Cable 3 (GPS) Connectors:	RG-58 cable,15 ft (4.5 m) LL-195 cable,15 ft (4.5 m) RG-174, 15 ft (4.5 m) SMA Plug (Male) standard
VSWR: Nominal Impedance: Power: GPS: Noise Figure Amplifier Bias Amplifier Current GPS & Glonass Option: Case: Case Material:	 2:1 max over range 50 Ohm 10 Watts 2.0 dB max, 1.7 dB typical 2.7 to 5 VDC 20 mA, 10 mA typical 1575 MHz & 1602 MHz 4.2"D x 3.2"H (10.7 cm x 8.1 cm) White or Black UV resistant ASA 	Mounting: Operating Temp: Shock & Vibration: Dust/Water Ingress:	Threaded metal stud ³ /4" dia. x ½" long (1.9 cm x 1.3 cm) for 1/4" (6 mm) thick metal; supplied with gasket and nut -40° to +80° C IEEE1478, EN 61373, MIL-810G, TIA 329.2-C IP67