

SANTA FE TECHNOLOGIES

Product Description

T9-5GW-C is a rugged combination antenna of GNSS and telecom 5G bands, which features excellent GPS GLONASS signal quality and cellular 3G/4G/5G coverage, MIMO LTE and MIMO Wi-Fi. With anti-UV material and water ingress design, the combo antenna is easy to install and able to meet commercial and industrial standards.

Highlight

- ✓ Central screw mount, easy installation
- ✓ Zinc alloy die casting antenna base.
- ✓ IPX7 Waterproof
- ✓ Support GPS/GLONASS, WiFi 2.4/5.8GHz and MIMO LTE
- ✓ RF independent grounded
- ✓ Application flexibility: 1 lead, 2 leads, 3 leads, 4 leads, 5 leads or 6 leads version are optional (1xGNSS, 2xLTE, 3xWi-Fi)
- ✓ Apply weather-resistance antenna enclosure material for harsh environment.
- ✓ Proprietary-designed excellent GNSS signal reception quality and RF isolation.

Applications

- ✓ Navigation and data communication
- ✓ Vehicle tracking & Fleet management
- ✓ Machine-to-machine, SCARDA
- ✓ IoT Gateway, routers

T9-5GW-C

Industrial-grade Multi-system Low Profile Combo Antenna



Mechanical Specification

Dimension	116 (dia.) x 57mm
Mounting	Screw Mount
Cable	RG-174 or Low Loss Cable
Connector	SMA or other RF connectors
Enclosure Material	ABS
Operating Temperature	-35°C to 85°C
Storage Temperature	-40°C to 85°C

Multi-System Antenna Specification



Accessories

- Screw
- Washer
- Waterproof gasket

LTE Specification (Main)

LTE MIMO - Main

Frequency (MHz)	698~960	1710~2690	2500-3800
Peak Gain	2.01dB	4.35dB	7.87dB
Efficiency	49%	43.52%	64%
Impedance	50 ohm		
VSWR	< 2.0		
Polarization	Linear		

LTE Specification (Diversity)

LTE MIMO - Diversity

Frequency (MHz)	698~960	1710~2690	2500-3800
Peak Gain	2.83dB	5.21dB	6.74dB
Efficiency	32%	46%	59%
Impedance	50 ohm		
VSWR	< 2.0		
Polarization	Linear		

GPS & GLONASS Specification

Antenna	
Frequency (MHz)	GPS L1: 1575.42, GLONASS L1: 1602
VSWR	≤ 1.5
Gain (Peak)	4.5dBi
Polarization	R.H.C.P.
Impedance	50 ohm
LNA	
LNA Gain	28±2dB
VSWR	<1.5
Noise Figure	<1.5
DC Voltage	2.7~5V
DC Current	8~13mA

Wi-Fi Specification (Wi-Fi Antenna #2)

WiFi#2		
Frequency (MHz)	2400-2500	5150-5850
Peak Gain	2.1dB	4.48dB
Efficiency	38%	48%
Impedance	50 ohm	
VSWR	< 2.0	
Polarization	Linear	

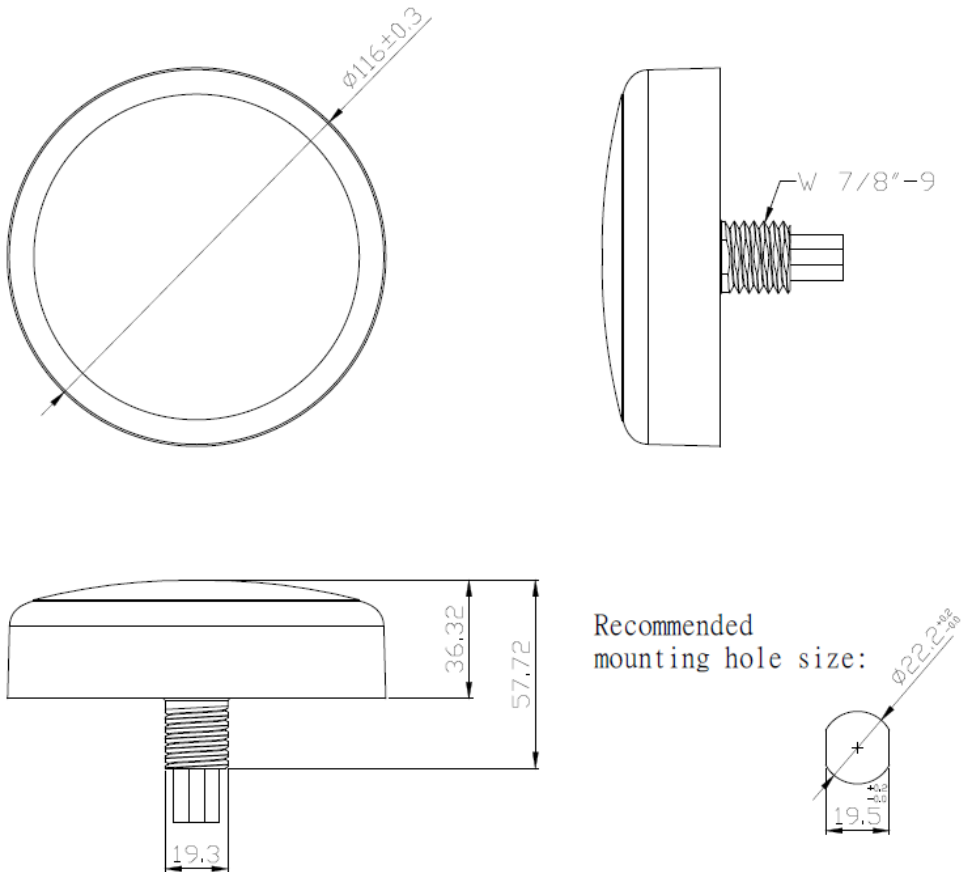
Wi-Fi Specification (Wi-Fi Antenna #1)

WiFi#1		
Frequency (MHz)	2400-2500	5150-5850
Peak Gain	2.77dB	6.56dB
Efficiency	49%	60%
Impedance	50 ohm	
VSWR	< 2.0	
Polarization	Linear	

Wi-Fi Specification (Wi-Fi Antenna #3)

WiFi#3		
Frequency (MHz)	2400-2500	5150-5850
Peak Gain	2.82dB	5.65dB
Efficiency	30.1%	45%
Impedance	50 ohm	
VSWR	< 2.0	
Polarization	Linear	

Physical Antenna Drawing



Reference:

