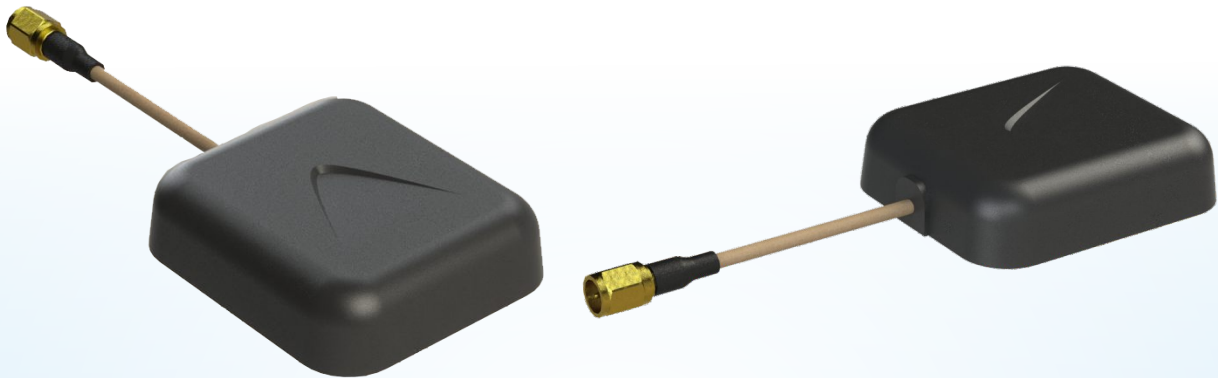




## GPS/GLONASS ANTENNA

The V3N-A057 employs V3 NOVUS unique Accutenna® technology covering the GPS L1 & Glonass G1 Frequency bands (1575.42±1MHz & 1602 ±1MHz) It is especially designed for precision industrial, agricultural and military OEM applications. It provides truly circular response over its entire bandwidth thereby producing superior multipath signal rejection.



The V3N-A057 features a dual-feed wideband patch element, with a two stage Low Noise Amplifier, comprised of one input LNA per feed, a mid section SAW to filter the combined output, and a final output gain stage. This configuration provides excellent axial ratio that is constant across the full frequency band. An optional tight pre-filter is available with part number V3N-A057 to protect against saturation by high level sub-harmonics and L-Band signals.

The V3N-A057 is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, and is available with a variety of connectors and cable lengths. The antenna can be ordered without the magnet. In such cases, the magnet is replaced with a plastic plug to provide a smooth under surface.



## FEATURES

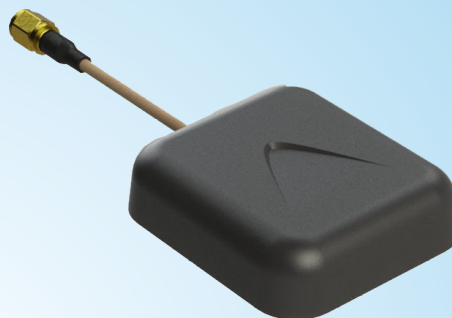
- ❖ Great axial ratio:  $\leq 1$  dB typ. 3 db max.
- ❖ Low noise LNA: 1.0dB typ.
- ❖ LNA gain: 48+/-2 dB typ.
- ❖ Low current: 20~40 mA typ.
- ❖ Wide voltage input range: 2.2 to 5 VDC
- ❖ IP67 weather proof housing
- ❖ GPS L1 1575.42±1MHz

## APPLICATIONS

- ❖ AIS Approved Vehicle tracking system
- ❖ Precision Agriculture, Mining & Construction
- ❖ Military & Security
- ❖ Dashboard Manufacturer
- ❖ Law Enforcement & Public Safety
- ❖ Fleet Management & Asset Tracking

## BENEFITS

- ❖ Excellent multipath rejection
- ❖ Increased system accuracy
- ❖ Excellent signal to noise ratio
- ❖ Great out of band signal rejection
- ❖ Ideal for harsh environments
- ❖ RoHS compliant



## ANTENNA SPECIFICATION

Center Frequency	1575.42 & 1602 ±1MHz
Band Width	CF±5MHz
Polarization	RHCP
Gain	5dBic (Zenith)
V.S.W.R	<1.5
Impedence	50Ω
Axial Ratio	3dB (max)

## LNA INFORMATION

Gain	48±2dB
Noise Figure	<1.0
Filter Insertion Loss	<2dB
Ex-band Attenuation	45dB@CF+50MHz/30dB@CF-50MHz
Supply Voltage	2.2~5V DC
Current Consumption	20~40mA
V.S.W.R	<2.0

## MECHANICAL AND ENVIRONMENTAL

Connector	SMA/MCX/FAKRA or others
Radome	Material ABS
Cable	Rg174
Mounting Method	Magnet/Adhesive
Dimension	25*25*4mm
Operating Temperature	-40~+85
Relative Humidity	Up to 95%
Vibration	10 to 55Hz with 1.5mm amplitude 2hours
Environmentally Friendly	ROHS Compliant

