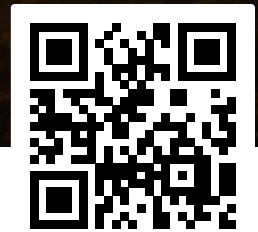




Confidence. Engineered.

Precision GNSS Antennas



What is your application?
We can help!

Precise Single / Dual / Triple /
Full-Band, L-Band, OEM, and
Housed Antennas

With **Accutenna®**, **Helical**,
VeroStar™, **VeraPhase®**, and
VeraChoke® Technologies

VeraChoke[®] Technology

Best performance of any choke ring antenna with a new class of PCV accuracy

PCV ±0.5 mm

Features

- Full GNSS band + L-Band corrections
- Efficient VeraPhase[®] Antenna element
- Extremely tight phase centre variation (±0.5 mm) and superior PCV repeatability
- Three-dimensional choke ring to mitigate multipath
- Available with or without SCIGN radome
- Geo++ calibrated



VC6000 Series
VeraChoke[®] Antennas

Mounting	Model		Bands																	
			L1	L2	L5	G1	G2	G3	E1	E5a	E5b	E6	B1	B2	B2a	B3	L5	L6	Iridium	
Standard Survey Mount	VC6050	▶	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VC6150	▶	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

▶ L-Band Correction Services

VeraPhase[®] Technology

High performing technology with a stable and tight PCV, ideal for RTK and PPP systems

PCV ±1mm

Features

- Patented triple & full GNSS band + L-Band corrections
- 35 dB and 50 dB gain models available
- Extremely tight phase centre variation (±1 mm) across all frequencies with excellent PCV repeatability
- Exceptionally low axial ratio from zenith to horizon (<2.0 dB), resulting in excellent multipath rejection
- Innovative low noise amplifier and eXtended Filter (XF) to mitigate Ligado and LTE
- Geo++ calibrated



VP6000 Series
VeraPhase[®] Antennas

Mounting	Model		Bands																
			L1	L2	L5	G1	G2	G3	E1	E5a	E5b	E6	B1	B2	B2a	B3	L5	L6	Iridium
Standard Survey Mount	VP6000	▶	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VP6300	▶	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

▶ L-Band Correction Services

● GPS/QZSS
● GLONASS
● GALILEO
● BEIDOU
● IRNSS/NAVIC
● QZSS
● IRIDIUM

VeroStar™ Technology

Precise, accurate, robust, lightweight survey grade antennas



VSP Series
Housed



VSE/VSM Series
Embedded Standard/Mini



VSS Series
Surface Mount

Features

- Best-in-class low elevation angle tracking with tight phase centre variation (± 2 mm)
- Triple & full GNSS band + L-Band corrections
- Excellent radiation pattern with low roll-off for excellent low elevation tracking
- Excellent axial ratio for improved multipath rejection
- Innovative low-noise amplifier with eXtended Filtering (XF)
- Waterproof with IP69K compliance
- Geo++ calibrated

PCV ± 2 mm

Mounting	Model			↗	Bands																	
	Housed / Surface	Embedded Standard	Embedded Mini		L1	L2	L5	G1	G2	G3	E1	E5a	E5b	E6	B1	B2	B2a	B3	L5	L6	Iridium	
Pole / Pipe (Housed)	VSP6037L	VSE6028L	VSM6028L	↗	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VSP6037L-MAR			↗	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Surface	VSS6037L			↗	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Direct Screw (Embedded)	VSP6337L	VSE6328L	VSM6328L	↗	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VSS6337			↗	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

↗ L-Band Correction Services

Helical Technology

Unprecedented performance in a lightweight, military grade IP67 compliant form factor



HCXXX Series
Housed



HCXXXE Series
Embedded



HCXXXEXF Series
XF Embedded

Features

- Single / dual / triple / full GNSS + Iridium & L-Band corrections
- Extremely lightweight (Embedded 5 g, Housed 35 g)
- Novel Helical element with excellent axial ratio
- Low noise amplifier and eXtended Filtering (XF)
- Unique mounting ring for embedded models
- Ground Plane not required

PCV ± 3 mm

Mounting	Model		↗	Bands																	
	Housed	Embedded		L1	L2	L5	G1	G2	G3	E1	E5a	E5b	E6	B1	B2	B2a	B3	L5	L6	Iridium	
Surface Mount / Direct Screw (Housed)	HC600	HC600E																			P
	HC610	HC610E																			A
	HC771	HC771E		●			●			●				●							P
	HC843	HC843E		●	●		●	●		●				●							P
	HC860	HC860E		●	●		●	●		●				●							A
	HC871/XF	HC871E		●	●		●	●		●				●							
Embedded / Retaining Ring (Embedded, XF Embedded)	HC871SXF			●	●		●	●		●				●							
	HC872/XF	HC872E	↗	●	●		●	●		●				●							
	HC882/XF	HC882E	↗	●	●		●	●	●	●			●		●	●					
	HC976	HC976E	↗	●	●		●	●		●			●		●			●		●	
	HC977/XF	HC977E	↗	●	●	●	●	●		●	●	●		●	●	●			●	●	
	HC977XF	HC977EXF	↗	●	●	●	●	●		●	●	●		●	●	●			●	●	
	HC990XF	HC990EXF	↗	●	●	●	●	●		●	●	●	●		●	●	●		●	●	
HC997XF	HC997EXF	↗	●	●	●	●	●		●	●	●	●		●	●	●		●	●		

↗ L-Band Correction Services, A = Active, P = Passive



Confidence. Engineered.

Accutenna® Technology

Low axial ratio and high multipath signal rejection – suitable for the most demanding applications with unmatched precision in both size and price

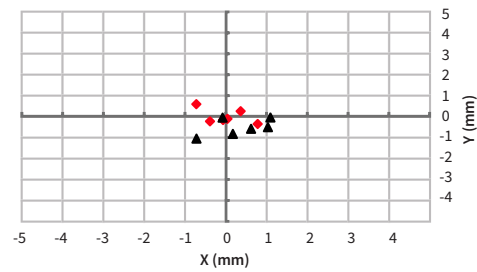
Tallysman's patented Accutenna® technology provides superior multipath signal rejection with the accuracy and precision to support RTK and PPP applications.

Features

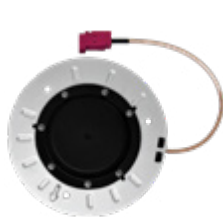
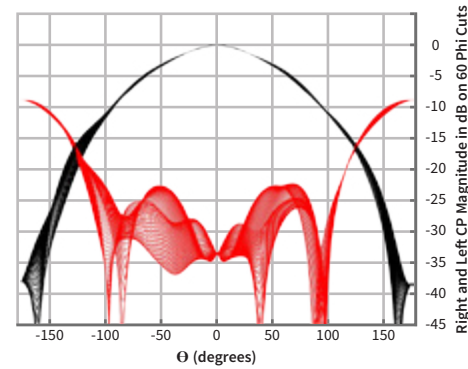
- Lightweight single / dual / triple GNSS band + L-Band corrections
- Very low current options
- Patented Accutenna® technology
- Pre and eXtended Filtering (XF) options available
- Antenna customization (tuning, cables, connectors, radomes)

PCV ±10 mm

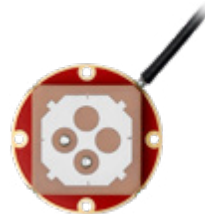
Tight Phase Centre



Great Cross Polarization Rejection



TWA928L/AccuAuto Series Embedded Autonomous Vehicle Antennas



TW1400/TW1700 Series Embedded Single Band Antennas



TW1800 Series Embedded Dual Band Antennas



TW2000 Series Embedded Single Band Antennas



TW3000 Series Embedded Dual and Triple Band Antennas



TW2000 Series Single Band Antennas



TW3000 Series Single, Dual, and Triple Band Antennas



TW4000 Series Single Band GNSS and Iridium Antennas



TW7000 Series Dual and Triple Band Antennas



TW8000 Series Dual Band Antennas

About Calian

We keep the world moving forward. Calian® helps people communicate, innovate, learn and lead safe and healthy lives. Every day, our employees live our values of customer commitment, integrity, innovation and teamwork to engineer reliable solutions that solve complex problems. That's Confidence. Engineered. A stable and growing 40-year company, we are headquartered in Ottawa with offices and projects spanning North American, European and international markets. Visit calian.com to learn about innovative healthcare, communications, learning and cybersecurity solutions.

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