Brochure

CALIAN®
Confidence. Engineered.

Calian Aerodynamic Antennas

At a glance

Calian offers a wide range of GNSS antennas specially designed for UAV applications. The high-performance, aerodynamic antennas are available in embedded or housed models. The aerodynamic range of antennas features the smallest and lightest, and most accurate single, dual and triple-band ceramic patch antennas on the market.

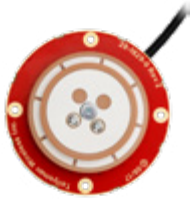
Calian's ceramic patch antennas feature our patented Accutenna® technology, which supports a dual-feed element. The dual feed Accutenna® provides a clean and pure right hand circularly polarized signal over the antenna's full bandwidth, which is required to track today's modern wideband GNSS signals. Another key feature of the capacitively feed patented Accutenna® is that it enables Calian to offer the smallest and most capable single band (25mm square) and multi-band (35mm in diameter) GNSS antennas on the market. Accutenna® products enhance the rejection of cross-polarized signals that occur when GNSS signals are reflected (commonly called multipath) off buildings and other objects. The Accutenna® technology minimizes the effects of reflected signals and provides a clean signal to the GNSS receiver. Calian's single, dual, and triple-band antennas also have a very tight Phase Center Variation (PCV), which enables Real-Time Kinematic (RTK) and Precise Point Positioning (PPP) applications.

The single, dual, and triple-band GNSS versions of Calian patch-based antennas all feature low loss prefilters and Calian's eXtended Filtering (XF) which protects against high level interfering signals, such as LTE (Ligado) and other communications systems.

Calian also offers a line of aerodynamic, active, and passive Iridium antennas for satellite communications.

When precision matters, choose Calian antennas for all your Precise Point Positioning (PPP) & Real-Time Kinematics (RTK) positioning applications.

Single Band
OEM Antenna



Dual Band
OEM Antenna

ARM928XF Extended Filter
Antenna + L-Band

TW4000 Series Housed Antenna

Housed Antennas

Housed antennas are available in single, dual, and triple band capabilities. The form factors include: magnetic mount, screw attachment, adhesive mount, and two types of through-hole mounts. Calian offers the smallest dual band patch-based antennas in the world.

OEM (Embedded) Antennas

With a wide variety of OEM (embedded) antennas, Calian can support many aerodynamic-sensive applications. Services to evaluate customer antenna installation configurations are also available, which can be problematic if not considered, and custom tuning to optimize performance and sensitivity once installed in a customer end product.

TW2000 Series

TW3000 Series

TW4000 Series

TW7000 Series

ARM928XF

SSL889XF

Small
Single Band

Compact
Single/Dual Band

Compact Single/
Dual/Triple and Full
Band Accutenna
Patch Antenna

Model	L-Band Corrections	Frequency Bands	Type	Weight
TW1722		L1, G1, E1, B1	OEM Patch	18 g
TW2708			OEM Patch	38 g
TW4722			Housed Patch	34 g
TW2712			Housed Patch	110 g
TW2920	x		Housed Patch	100 g
TW1829		L1/L2, G1/G2, E1, B1	OEM Patch	37 g
TW8829			Housed Patch	52 g
TW3867			OEM Patch	70 g
TW3872E	x		OEM Patch	185 g
TW7872			Housed Patch	180 g
TW8825		L1/L5, G1, E1/E5a, B1/B2a	Housed Patch	52 g
TW1825			OEM Patch	37 g
TW7875			Housed Patch	180 g
SSL889XF			Housed Patch	45g
TW7876		L1/L6, G1, B1/B3, E6	Housed Patch	180 g
TW1889/XF		L1/L2, G1/G2/G3, E1/E5b, B1/B2	OEM Patch	37 g
TW8889			Housed Patch	52 g
TW3967/XF	x	L1/L2/L5, G1/G2/G3, E1/E5a/E5b, B1/B2/B2a	OEM Patch	70 g
TW3972EXF	x		OEM Patch	70 g
TW7972XF	x		Housed Patch	180 g
TW2600		Iridium	Housed Patch	160 g
TW2600A		Iridium	Housed Patch	160 g
ARM928XF	x	Triple Band	Housed Patch	140 g
ARM990XF	x	Full Band	Housed Patch	140 g

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For over 40 years, Calian has delivered mission-critical solutions when failure is not an option. Trusted worldwide, we empower organizations in critical industries to overcome obstacles, manage risks and drive progress. By combining the expertise of our people, proven industry insight, cutting-edge technology, bold innovation and global reach, we deliver tailored solutions that solve complex challenges. Headquartered in Ottawa, Canada, with over 6,000 people around the world, Calian's solutions protect lives, strengthen security, foster global connectivity and drive economic progress, making a lasting impact where and when it matters most.

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