

Calian Augmented Smart Antennas for Precision Agriculture and Autonomous Mobility Applications

Your application depends on <6 cm precision

We get you there quickly, reliably and repeatably.

Today's geo-location applications for agriculture and autonomous mobility applications are increasingly mission-critical and autonomous – progressively requiring centimetre precision in real-world environments.

Combining our world-class antenna technology with u-blox's dual-frequency receivers using PointPerfect® PPP-RTK corrections via terrestrial IP networks ORL-Band satellite signal, Calian delivers precise positioning performance in a compact industrial IP-rated package that removes the many hurdles of GNSS antenna/receiver integration from development and deployment consideration.





u-blox and Calian – a great team

Calian works with u-blox to combine two world-class GNSS elements into one integrated package: Calian's dual-feed, multi-band, multi-constellation antennas and u-blox's F9 receiver family.



Our line up of Augmented Smart Receiver/Antennas

Signal Support – GPS: L1 C/A, L2P, L2C, L53; GLONASS: L1 C/A, L2 C/A; Galileo 3: E1, E5A/B; Beidou: B1I, B2I.

TW5384 – Multi-Band (L1/L2), concurrent GPS, Beidou, Galileo and Glonass, multi-stage filtering with low noise figure LNA's, Dual Feed Accutenna, ZED F9P GNSS receiver. RS422/RS485 digital interface.

TW5386 – Multi-Band (L1/L2), concurrent GPS, Beidou, Galileo and Glonass, multi-stage filtering with low noise figure LNA's, Dual Feed Accutenna, ZED F9R GNSS receiver with Intertial Management Unit. RS422/RS485 digital interface.

TW5390/TW5790 – Multi-Band (L1/L2), concurrent GPS, Beidou, Galileo and Glonass, multi-stage filtering with low noise figure LNA's, Dual Feed Accutenna, ZED F9R GNSS receiver with Intertial Management Unit, NEO D9S L-Band Corrections receiver. RS422/RS485 digital interface. TW5390 fixed mount, TW5790 surface mount; RS422/485 serial I/F or USB.

HCS885XF/EXF – Multi-Band (L1/L5), concurrent GPS, Beidou, Galileo and Glonass, multi-stage filtering with low noise figure LNA's, patented Calian helical element with excellent axial ratio, NEO F9P GNSS receiver for augmentation and precise heading. RS232 or CMOS interface with 6 pin JST port. Extremely lightweight: HCS885XF (Housed) is 38 g; HCS885EXF (embedded) is 8 g.

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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