

ARM928XF



Multi-Constellation Triple-Band Antenna

Frequency Coverage: GPS L1, L2, L5 | GALILEO E1, E5a, E5b | BEIDOU B1, B2a, B2b | GLONASS G1, G2 | NavIC L5 + L-band

Calian is excited to announce that it has added the ARM928XF triple-band plus L-Band GNSS antenna to its industry-leading line of GNSS antenna products. The ARM928XF employs Calian's patented Accutenna® technology providing GPS/QZSS L1/L2/L5, GLONASS-G1/G2/G3, Galileo E1/E5a/E5b, and BeiDou B1/B2a/B2b + L-Band coverage. The ARM928XF antenna is designed for precision triple-frequency positioning where lightweight and a low profile are important.

The ARM928XF antenna is available in two form factors one includes a 100 mm integrated ground plane, weighing 140 g, and the other one is 83mm in diameter and weighs 138 grams. Both are 19 mm tall and support the ARINC mini bolt pattern of 2.0" x 1.66". Calian's ARM928XF is one of the smallest and lightest housed triple-band precision Mini ARINC GNSS antennas on the market. It has a very tight average phase center variation of less than 10 mm for all frequencies and overall azimuths and elevation angles. In addition to supporting two form factors both models are available with Low Earth Orbit (LEO) qualified components.

Housed in a weatherproof enclosure, the ARM928XF is available in four versions. Model ARM928XF-1 (ARM928XF-1-S LEO Space qualified components) has an integrated 100mm ground plane, Model ARM928XF-2 (ARM928XF-2-S LEO Space qualified components) is 83 mm in diameter. All models are available with either a female SMA or TNC connector.

The new ARM928XF antenna supports Calian's eXtended Filtering (XF) technology. Worldwide the radio frequency spectrum has become congested as many new LTE bands have been activated, and their signals or harmonic frequencies can affect GNSS antennas and receivers. In North America, the planned Ligado service, which will broadcast in the frequency range of 1526 to 1536 MHz, can affect GNSS signals. Similarly, new LTE signals in Europe [Band 32 (1452 – 1496 MHz)] and Japan [Bands 11 and 21 (1476 – 1511 MHz)] have also affected GNSS signals. Calian's XF technology mitigates all these signals.



Configuration -1



Configuration -2

Applications

- Autonomous vehicle tracking and guidance
- Precise GNSS positioning
- Precision agriculture
- Triple-frequency RTK and PPP receivers
- Law enforcement and public safety
- Augmented GNSS positioning

Features

- Very low noise preamp (< 2.5 dB typ.)
- Tight phase centre variation
- High-gain LNA (28 dB typ.)
- Low current (32 mA typ.)
- ESD circuit protection (15 kV)
- Invariant performance from 2.5 to 16 VDC
- IP69K (non-space), REACH, and RoHS compliant

Benefits

- Excellent interference mitigation
- Excellent multipath rejection
- Increased system accuracy
- Excellent signal-to-noise ratio

About Calian: With global headquarters and manufacturing in Ottawa, Canada, Calian is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Calian's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at www.calian.com/gnss

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