

NEWSPACE MARKET · COMPANY PROFILE



Xona Space Systems

United States · founded 2019 · xonaspace.com

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as of 20 August 2026

A large, faint, stylized version of the Xona logo is positioned in the bottom right corner of the page, serving as a background watermark.

Xona Space Systems

Xona Space Systems is a Burlingame, California-based company developing Pulsar — the world’s first commercial Low Earth Orbit positioning, navigation, and timing (PNT) constellation. Founded by a team of navigation engineers, Xona is addressing the fundamental vulnerability of legacy GNSS infrastructure (GPS, Galileo, GLONASS, BeiDou) by building an independent, LEO-native navigation system that delivers dramatically stronger signals, centimeter-level accuracy, and built-in cryptographic authentication from the ground up. The Pulsar constellation operates at approximately 1,080 km altitude — roughly 20 times closer to Earth than GPS — enabling received signal power up to 100 times greater than GPS L1 C/A at the user terminal. Pulsar broadcasts on two L-band signals (X1 and X5, spectrally adjacent to GPS L1 and L5 respectively) using EFQPSK modulation, which allows existing dual-band GNSS receivers to receive Pulsar signals via a firmware update, with no RF hardware changes required. This backward compatibility is a cornerstone of Xona’s market strategy. Xona’s first production satellite, Pulsar-0, launched on 23 June 2025 aboard SpaceX’s Transporter-14 rideshare mission. After one year of operation, Pulsar-0 demonstrated 1.5 cm native horizontal positioning accuracy — without correction networks, RTK base stations, or augmentation services — and sub-10 nanosecond UTC timing accuracy. Xona holds the first FCC commercial license to broadcast navigation signals in the GNSS L-band. The Pulsar Verified ecosystem program has attracted receiver OEM and chipset partners including Trimble, Septentrio (Hexagon), STMicroelectronics, Safran, StarNav, and Keysight. The full 258–300 satellite constellation is planned to provide global coverage with near-instantaneous 25 cm converg

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SERVICES

Services

Developer Access to Test Data and SDKs Developers can request access to Pulsar test data, receiver specifications, and software development kits (SDKs) for integration and evaluation.	Integration Support and Expertise Xona offers expertise to facilitate the integration of Pulsar into customer hardware and provides access to test platforms and simulators.
Pulsar Positioning, Navigation, and Timing (PNT) Service Pulsar provides robust, high-integrity positioning, navigation, and timing services with centimeter-level accuracy, authentication, and strong signal strength.	

Product catalogue

XONA SPACE SYSTEMS

Pulsar Constellation (PNT Service)

Xona's commercial LEO satellite constellation delivering an independent, GPS-alternative positioning, navigation, and timing signal with centimeter-level accuracy.

Orbit type	Low Earth Orbit (LEO), sun-synchronous
Planned constellation size	258-300 satellites (phased rollout)
Signal bands	Dual-band X1 and X5, compatible with GNSS L1/L5 receiver bands
Signal strength	Up to -136 dBW, ~100x stronger than GPS L1 C/A
Position accuracy	~2 cm x 4 cm (horizontal x vertical)
Timing accuracy	<10 nanoseconds
Convergence time	Near-instantaneous to ~25 cm

price on request



XONA SPACE SYSTEMS

Pulsar Verified Receiver Integration Program

Xona's hardware certification ecosystem enabling GNSS receiver OEMs and chipset integrators to validate and ship Pulsar-compatible devices via firmware updates.

Signal compatibility	X1 (adj. GPS L1) and X5 (adj. GPS L5) L-band signals
Integration method	Firmware/software update to existing dual-band GNSS receivers
Inaugural verified partners	Trimble, Septentrio (Hexagon), STMicroelectronics, Safran, StarNav, Keysight
Legacy device support	Trimble devices from 2018 onward confirmed compatible
Test infrastructure	GNSS simulators (Spirent, Safran), live-sky Pulsar-0 data, SDKs
Positioning accuracy (Pulsar-enabled receiver)	Centimeter-level (2 cm H x 4 cm V target)
Timing accuracy (Pulsar-enabled receiver)	< 10 ns UTC

price on request

Contact Xona Space Systems

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