



Press Release

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Hexagon Demonstrates Lane-Level Accuracy with Safety and Integrity at CES 2020

Correction Technology and Software Positioning Engine Showcased in Las Vegas

(Las Vegas, Nevada, January 6, 2020) – Hexagon’s Positioning Intelligence division is proud to be showcasing state-of-the-art technology at the Consumer Electronics Show (CES) January 7 to 10 in Las Vegas, Nevada. TerraStar X™ correction technology combined with Hexagon’s software positioning engine will be used to demonstrate production-level results on real roads throughout the city of Las Vegas. The demonstrations, being conducted by the Safety Critical Systems team, will include real-time protection level output, advanced sensor fusion positioning techniques, and rapid converging, lane-level accuracy.

The software positioning engine is customizable to accept measurements from a variety of GNSS automotive grade chipsets and sensors, fusing them with input from Inertial Measurement Units (IMUs) and vehicle odometry to produce an accurate absolute position, velocity and attitude solution for vehicle or feature control. TerraStar X delivers centimeter-level accuracy in under a minute, leveraging existing Hexagon capabilities in ground network infrastructure, correction data generation, and data packaging for IP delivery of data to enable integrity and authentication for safety-critical applications like autonomous driving. By combining the software positioning engine with the fast converging TerraStar X correction technology, users will see an improvement of up to 70% in accuracy over industry standard chipsets.

“Our team has made significant progress on both TerraStar X and our software positioning engine and we are very pleased to share and demonstrate the results here at CES,” said Jonathan Auld, NovAtel® VP of Engineering & Safety Critical Systems, “The fusion of GNSS with vehicle odometry and inertial measurements provides continuous lane-level positioning from highway conditions to the most challenging of environments.”

Hexagon representatives will be available at booth CP-15 during CES to answer customer questions. To set up a meeting or demo with the Hexagon Safety Critical Systems team at CES 2020, attendees can contact Andreas Niemann, Business Development Manager Automotive, at andreas.niemann@hexagon.com.

For Meeting or Demo Inquiries:

Andreas Niemann
Business Development Manager Automotive
T: +49 172-833-4880
E: andreas.niemann@hexagon.com

For Media Inquiries:

Jennifer Abrahams
Marketing Manager
T: +1.403-295-4963
E: jennifer.abrahams@hexagon.com



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About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's [Positioning Intelligence division](#) is a global technology leader, pioneering end-to-end solutions for assured positioning for land, sea, and air. Its solutions power intelligent positioning ecosystems in vital industries and safety-of-life applications, enabling the advancement of the Autonomous X (cars, UAVs, industrial vehicles, trains, vessels, and more). The division includes leading brands [NovAtel](#), [Veripos](#), and [AutonomouStuff](#).

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us [@HexagonAB](#).