



NXP Extends its Secure Ultra-Wideband Portfolio with New Sensing Solutions that Enable Emerging IoT Use Cases

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- New IoT ICs deliver highly precise positioning capabilities and fine ranging for IoT applications such as smart locks and IoT sensors
- UWB IoT modules and development kits are available now through NXP's partner network
- Introducing Trimension™ under the new brand name NXP offers one of the broadest UWB portfolios available with tailored sensing solutions for vehicles, smartphones, and IoT devices

EINDHOVEN, The Netherlands, Oct. 20, 2020 (GLOBE NEWSWIRE) -- At its annual developer's conference, NXP Semiconductors N.V. (NASDAQ: NXPI) announced the next milestone in establishing secure ultra-wideband (UWB) technology as the global standard for fine-ranging and high-precision sensing. Following the introduction of [mobile](#) and [automotive](#) UWB solutions, NXP has expanded its portfolio to include new UWB ICs. Trimension SR040 and SR150 ICs are optimized to enable new IoT use cases such as smart locks and real-time location system (RTLS) tags, delivering "relative position" with a very high level of accuracy. NXP Trimension is the new designated brand name for NXP's proven UWB platform – spanning solutions designed for the specific needs of the automotive, mobile and IoT markets.



NXP CEO, Kurt Sievers, demonstrates how ultra-wideband technology precisely tracks objects at NXP Connects 2020



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"At NXP, we're convinced that true innovation happens at the intersection of ecosystems. To accelerate the adoption of UWB and create meaningful new experiences, smart edge devices need to gain spatial awareness, whether it's a smartphone, car, or different IoT device form factor," said Rafael Sotomayor and EVP of BL Connectivity & Security with NXP. "Imagine the possibilities of moving through daily life with fewer barriers as devices anticipate our actions. Our new IoT ICs, combined with NXP's connectivity portfolio, will help developers add dimensionality to devices and objects to

make this vision possible.”

UWB is enabling a world where doors lock and unlock in response to the owner’s actual presence, where cars are shared with a simple touch of a screen or accessed handsfree, where smart home automation systems follow their owners intuitively and efficiently from one room to another, and people spend less time searching because misplaced items can be tracked in an instant.

“With higher levels of accuracy in positioning capabilities along with increased data security compared to other RF technologies, UWB will significantly improve the handsfree access control user experience in places such as offices, hospitals, educational institutions, and homes,” said Ramesh Songkrishnasamy, HID Global, Senior Vice President and CTO. “Based on its fine-ranging capability, we also believe UWB will enable many new location-based services and device-to-device IoT applications both in consumer products and industrial applications.”

About the New Trimension SR150 and SR040 ICs: Positioning and Sensing Optimized for IoT Use Cases

Designed with the specific needs of IoT devices in mind, Trimension SR150 adds angle-of-arrival (AoA) technology for an added level of precision. Trimension SR150 is ideally suited for the UWB enablement of all kinds of larger infrastructures, such as access control installations, indoor localization setups, and payment schemes, as well as consumer electronics. Several SR150 IC devices can be placed in a room as UWB anchors to help localize people and objects as they move.

Optimized for low-power operation, Trimension SR040 is designed for use in battery-operated IoT devices, including UWB trackers and tags, and can be integrated with Bluetooth Low Energy or other connectivity controllers in one device. Trimension OL23D0 complements the range of dedicated IoT solutions as an open, fully customer programmable UWB controller for IoT applications.

Module Partners and The Path to Production: addressing specific use cases, [Trimension SR150 and SR040 ICs](#) are available in easy-to-integrate modules and development kits supplied by selected NXP partners.

Additional Quotes

“At Yale, we’re constantly looking to make people’s lives more convenient while giving them the peace of mind of knowing their home is secured,” said Martin Huddart, Head, Smart Residential at ASSA ABLOY. “UWB is a rare technology that offers increased security but also allows for convenient hands-free entering and exiting the home. For our customers, it will be like having their own doorman, so they never have to fumble with keys or their phone to open their door and have the comfort of knowing it’s always locked when it needs to be. We see residential locks with UWB as a catalyst for wider market adoption of UWB technology and firmly believe that this is just the beginning.”

The NXP UWB Ecosystem

NXP was the first to offer a system-level UWB solution backed by a comprehensive software offering and strong security integration based on NXP’s market-proven embedded secure elements (eSEs), and near-field communication (NFC) integration. The introduction of Trimension expands NXP’s comprehensive connectivity offerings across NFC, Wi-Fi, 5G and Bluetooth. Learn more: www.nxp.com/uwb

Recent NXP UWB News

- [NXP Secure UWB deployed in Samsung Galaxy Note20 Ultra Bringing the First UWB-Enabled Android Device to Market](#)
- [NXP Announces New Automotive Ultra-Wideband Chip Capable of Turning Smartphones into Car Keys](#)
- [NXP and VW share the wide possibilities of Ultra-Wideband’s \(UWB\) fine ranging capabilities](#)
- [NXP Announces Secure Ultra-Wide Band Ranging Technology](#)

NXP Connects Details

[Media Registration](#)

[Press Room](#)

[Full Keynote](#)

(available after 10am China Standard Time, 21 October 2020).

About NXP Semiconductors

NXP Semiconductors N.V. enables secure connections for a smarter world, advancing solutions that make lives easier, better, and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the automotive, industrial & IoT, mobile, and communication infrastructure markets. Built on more than 60 years of combined experience and expertise, the company has approximately 29,000 employees in more than 30 countries and posted revenue of \$8.88 billion in 2019. Find out more at www.nxp.com.

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Two photos accompanying this announcement are available at:

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For more information, please contact:

Europe/United States

Jason Deal

Tel: +44 771 5228414

Greater China / Asia

Ming Yue

Tel: +86 21 2205 2690

Jason.Deal@nxp.com

ming.yue@nxp.com

NXP- IoT

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