



## Gapwaves and NXP collaborate on high performance radar system solution

**Gothenburg, September 18, 2023: Gapwaves today announces a new collaboration with NXP® Semiconductors, the market leader for automotive radar semiconductors. Together the companies will develop 3D waveguide antenna solutions based on NXP's SAF85xx, an industry-first 28nm RFCMOS radar one-chip IC for next generation ADAS and autonomous driving systems, and Gapwaves proprietary waveguide antenna technology. The collaboration aims to enable unprecedented levels of radar detection range and Field of View (FoV) performance.**

NXP is a world leading manufacturers of semiconductors for the automotive, industrial and IoT, mobile, and communication infrastructure markets, [offering a comprehensive suite of radar sensor solutions that is designed to surround vehicles in a 360-degree safety cocoon.](#)

SAF85xx is a high performance one-chip solution for automotive radar applications with four transmitters and four receivers, available in a package option with integrated Launcher-in-Package (LiP), suitable for direct coupling to Gapwaves waveguide antennas. The combination of this powerful radar one-chip IC together with Gapwaves waveguide antenna significantly reduces coupling losses and thereby enables high-performance radar sensors with extended detection range, improved object separation and better ability to detect and classify small objects.

Gapwaves patented waveguide technology combines extremely low losses with market leading cost-efficiency for high production volumes. This results in unique advantages compared to traditional transmission line and waveguide technologies. The technology is based on an Artificial Magnetic Conductor (AMC) surface that enables propagation of electromagnetic waves in contactless artificial waveguide structures. This is the key to designing high performance waveguide antenna structures with a high degree of flexibility using well-established high-volume production processes.

Gapwaves CEO Jonas Ehinger comments:

*“We are proud to partner with NXP as this collaboration underscores the power and potential of the Gapwaves waveguide antenna solution. Our antennas are a key component enabling cost effective and high performing radar sensors for the automotive market. It is a strong opportunity for Gapwaves and our customers, as the results of this collaboration will enable shorter time-to-market in a cost-efficient way to meet the requirements of increased autonomous driving and driver assistance solutions”.*

### Gapwaves at EuMW 2023

Gapwaves and NXP will showcase a prototype at the EuMW 2023 in Berlin, booth 203C, September 17-22nd, 2023. If you are interested in learning more or want to make an appointment with us, please contact [sales@gapwaves.com](mailto:sales@gapwaves.com).

**For more information, please visit [www.gapwaves.com](http://www.gapwaves.com) or contact:**

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***About Gapwaves AB (publ)***

*Gapwaves originates from research conducted at Chalmers University of Technology and was founded in 2011. Gapwaves vision is to be the most innovative provider of mm-wave antenna systems and the preferred partner to those pioneering next generation wireless technology. By leveraging the disruptive Gapwaves technology we help pioneers in telecom and automotive to create highly efficient mm-wave antenna systems that contributes to re-defining everyday life. Gapwaves markets are e.g. mmWave in the automotive and telecom industries.*

*Gapwaves share (GAPW B) is traded at Nasdaq First North Stockholm with G&W Fondkommission as Certified Adviser.*