![XMOS]

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# "Hallo Magenta" – XMOS Vocal Fusion helps to bring Deutsche Telekom's new smart speaker to life



XMOS, leading supplier of voice and audio solutions are proud to be part of the team that helped to create Magenta - Deutsche Telekom's smart speaker, which delivers superior 360 degree far field voice control and sophisticated audio in a small, attractive and portable design.

Using XMOS's high-performance silicon and voice algorithms, experts at the Hearing, Speech and Audio Technology branch at Fraunhofer's Institute for Digital Media Technology (IDMT) in Oldenburg, Germany, were able to refine and combine microphone and loudspeaker technologies to create a robust voice control system that allows the user to listen to music at the same time as using voice command controls.

Launched at this year's IFA in Berlin, the Magenta Smart Speaker unites all the algorithms necessary for maximum quality and accurate audio reproduction. Combined with intelligent algorithms for speech capture – integrated on XMOS voice processor – the teams collaborated to optimise the interaction between speakers and microphones for voice control in real world, noisy environments.

## Key features

- Using the Magenta intelligent personal assistant, voice control can be used to operate connected devices in the home such as TV and Deutsche Telekom's smart home applications without the need for a remote control.
- The personal assistant can also be used to make telephone calls with excellent audio quality.
- Users of Amazon's cloud-based Alexa Voice Service can also access a large number of apps with Deutsche Telekom's smart speaker.
- The new voice-controlled assistant conforms to the highest data security requirements. Data processing takes place exclusively within the European Union and complies with Deutsche Telekom's high data protection standards.

"We're proud to be part of the Magenta project. Our combined expertise has produced a class-leading user experience, demonstrating highly sophisticated audio and speech recognition. We look forward to further collaborations with Fraunhofer IDMT in Oldenburg." said Mark Lippett, CEO of XMOS.

## About XMOS:

XMOS is a leading supplier of voice and audio solutions to the consumer electronics market. Unique silicon architecture and highly differentiated software positions XMOS at the interface between voice processing, biometrics and artificial intelligence. For more information, please visit www.xmos.com, or email press@xmos.com.

## About the Fraunhofer Institute for Digital Media Technology IDMT in Oldenburg.

The objective of the Fraunhofer IDMT in Oldenburg is to transpose scientific findings related to hearing perception into technological applications. Its applied research priorities are the enhancement of sound and speech intelligibility, personalized audio reproduction and acoustic speech and event detection. Application fields include consumer electronics, transport, the automotive sector, production, safety, telecommunications and healthcare. For more information, please visit www.idmt.fraunhofer.de/hsa.

## Media Contact:

Sanjay Dove/Ben Musgrove
Wildfire
XMOS@wildfire.com
+44 (0)20 8408 8000