

New Product Announcement

Infineon's New XENSIV MEMS Microphones, Now at Mouser, Enable Clear Voice Commands at Longer Distances

March 8, 2018 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking [IM69D120 and IM69D130 XENSIV™](#) MEMS microphones from [Infineon Technologies](http://www.infineon.com). The high-performance, low-noise microphones are ideal for applications such as high-quality audio capture, voice user interface, active noise cancellation, or [audio](#) pattern detection in [monitoring](#) systems.

[Infineon XENSIV microphones](#), available from Mouser Electronics, are designed for applications that require low self-noise, wide dynamic range, low distortion and a high acoustic overload point. The microphones incorporate Infineon's dual-backplate microelectromechanical systems ([MEMS](#)) technology to enable high linearity of the output signal within a dynamic range of up to 105 dB. The dual-backplate MEMS technology is based on a miniaturized symmetrical microphone design, similar as utilized in studio condenser microphones, which generates a truly differential signal. The technology allows improved high frequency immunity for better audio signal processing and increases the acoustic overload point of 10-percent total harmonic distortion (THD) to 135 dB SPL.

The 4 mm × 3 mm microphones feature a noise floor of just 25 dBA (69 dBA signal-to-noise ratio (SNR)), with distortion less than 1 percent, even at sound pressure levels of 128 dB SPL. For design agility, the IM69D120 microphone has been specifically designed to preserve the 69 dBA SNR within the dynamic range of a 16-bit system, whereas the IM69D130 is ideal for 20-bit systems. The SNR is an improvement of 5 dB compared to a conventional MEMS microphone, essentially doubling the possible distance between a user and the device capturing a voice command. Additionally, the microphones' flat frequency response and tight manufacturing tolerance result in close phase matching of the microphones, benefiting microphone array applications.

To learn more, visit www.mouser.com/infineon-xensiv-mems-microphones.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 700 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Infineon Technologies

Infineon Technologies is a leading global designer, manufacturer and supplier of a broad range of semiconductors used in various microelectronic applications. Infineon's product portfolio consists of logic products, including digital, mixed-signal, and analog integrated circuits, as well as discrete semiconductor products.

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