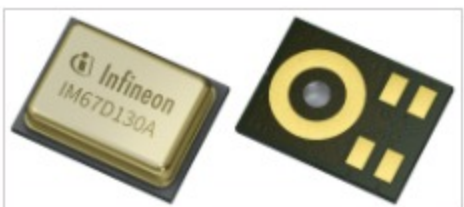


IM67D130A

NEW



XENSIV™ - IM67D130A high performance digital MEMS microphone for automotive applications

Our new Infineon XENSIV™ IM67D130A is a high performance digital MEMS microphone, qualified according to automotive standard, AEC-Q103-003.

The sensor offers high Signal-to-Noise-Ratio (SNR) and low harmonic distortions (THD) leading to an improved speech intelligibility, making it a best fit for hands free, voice recognition and in-cabin-communication applications. With its close sensitivity and phase matching it is well suited to be used in beamforming arrays. At the same time, its high Acoustic-Overload-Point (AOP) and enlarged operating temperature range allows flexible placement of the microphone in- and outside of the vehicle and therefore the use in a broad range of application environments.

The long availability matches the typical vehicle life cycles enabling Tier 1 and OEMs a long term strategy with platform developments and cost savings in qualifications.

Summary of Features

- High dynamic range of 103 dB for best speech performance
- Signal to noise ratio of 67 dB SPL
- <1% total harmonic distortions up to high SPL levels
- Acoustic overload point at 130 dB SPL
- Increased operating temperature range: TA = -40°C ...105 °C
- Digital PDM output
- Automotive qualification according to AEC-Q103-003

Benefits

- Automotive qualified microphone with extended availability to match long automotive design cycles for whole typical vehicle´s life cycles, allows savings in design-in efforts and risks
- Close sensitivity and phase matching for usage in arrays
- Flat frequency response with low frequency roll of and very fast analog to digital conversion speed for best ANC performance
- Enlarged operating temperature range allows flexible use in different application environments

Potential Applications

- Hands free calling/e-call
- Voice control/beamforming
- Active noise cancellation (ANC/RNC)
- Sirene detection
- Road condition detection

Parametrics

Parametrics	IM67D130A
Acoustic Overload Point	130.0 dB SPL
Current Consumption	980.0 µA
Interfaces	PDM
Sensitivity	-36.0 dBFS
Signal to Noise	67.0 dB
Supply Voltage ((V))	1.62 - 3.6

Documents

+ Expand all

+ Product Brief

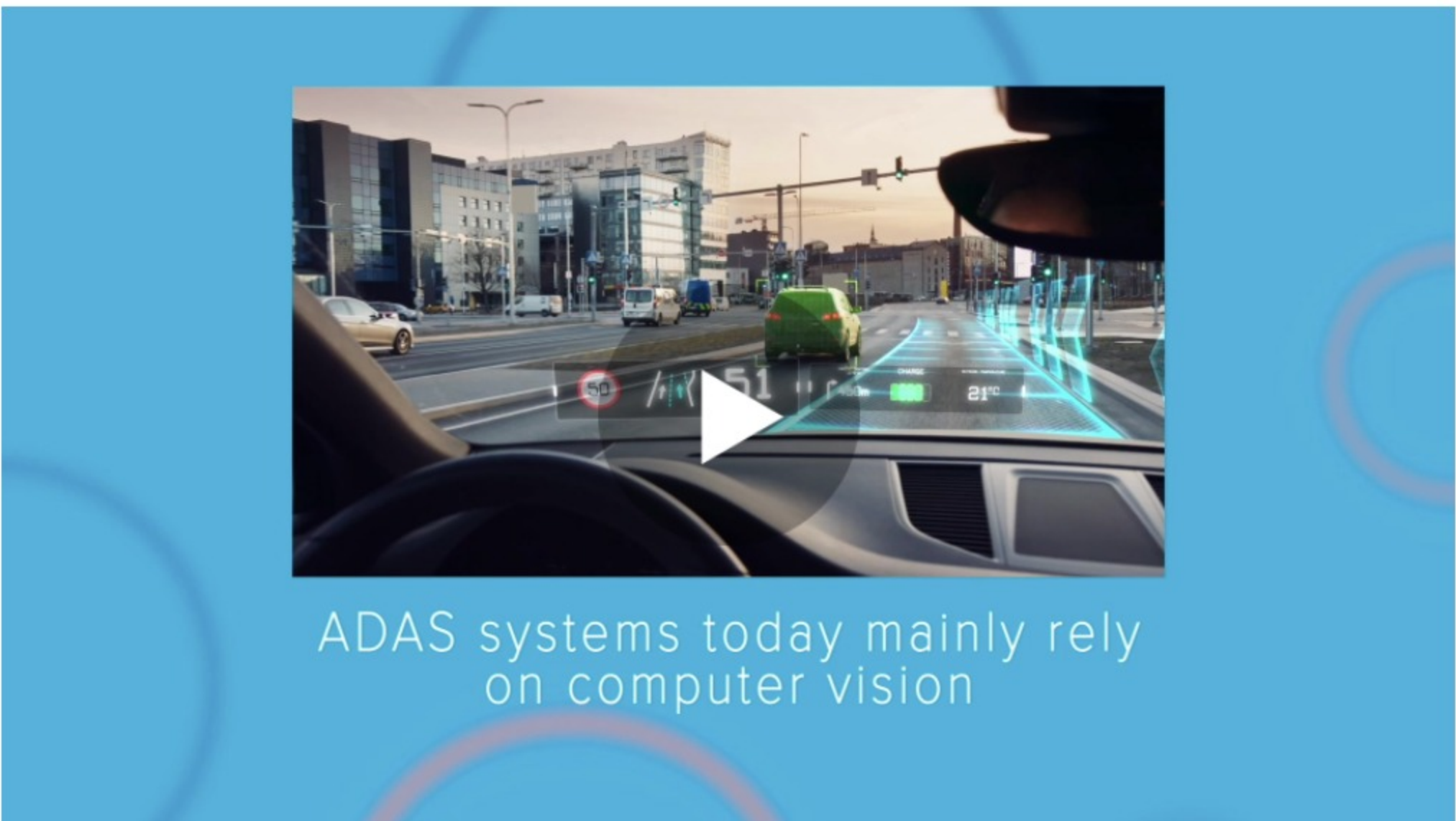
+ Product Selection Guide

+ Training

Order

Sales Product Name	IM67D130A
OPN	IM67D130AXTSA2
Product Status	coming soon
Infineon Package name	PG-LLGA-5
Standard Package name	
Order online	
Completely lead free	yes
Halogen free	yes
RoHS compliant	yes
Packing Size	1000
Packing Type	TAPE & REEL
Moisture Level	1
Moisture Packing	NON DRY

Videos



Cars can see around corners with sound

Training



Why Infineon's XENSIV™ MEMS microphones are the best solution for automotive applications

- Understand Infineon's pioneer role driving the automotive MEMS microphone market and its needs
- Discover the main features and key benefits of Infineon's XENSIV™ microphone and identify the target automotive applications for this product

Watch eLearning

Support

Search the FAQs! Enter your search terms...

Top 6 FAQs. Use the search bar above to show more!

Technical Support In order to enable us to process your inquiry as efficiently as possible and ensure your case is duly reported, we kindly ask you to submit your request via the following support form:... + Read more	Partner Finder for support, software, hardware, dev tools, services Infineon's partners offer products and services that complement our semiconductor device solutions to accelerate your development efforts and time to market.... + Read more	Package information The package information is available on our homepage at https://www.infineon.com/packages. Please note, that they are divided into the subcategories "Leaded and through-hol... + Read more
Notes on processing Information regarding reflow profile, soldering temperature, soldering profile and further processing notes for most of the discrete products are mentioned in the Application Note.... + Read more	Design-in support We offer design-in support for your application. You can find the Infineon Solution Finder at https://www.infineon.com/solutionFin... + Read more	Simulation Parameters/SPICE models Please visit our Simulation Model Finder on the internet at https://www.infineon.com/simulation Please select "Simulation Models (SPICE, S-parameters, SABER)" ... + Read more

