



Product brief

IM72D128V01

IP57 dust and water resistant digital PDM XENSIV™ MEMS microphone

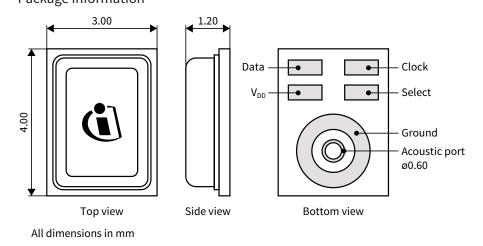
Product overview

Key parameters	Specifications
Environmental robustness	IP57
Sensitivity @ 1 kHz, 94 dBSPL	-36 ±1 dBFS
Signal-to-Noise Ratio (SNR)	72 dB(A)
Acoustic overload point (1/10% THD)	126/128 dBSPL
Current consumption	980 μA @ 3.072 MHz
Low frequency roll off (LFRO)	20 Hz
Group delay @ 1 kHz	7 μs
Supply voltage	1.62 to 3.60 V
Interface	Digital PDM
Port location	Bottom port
Package dimensions	4.00 x 3.00 x 1.20 mm

Key features

- Component level IP57 water and dust resistant
- > 72 dB(A) signal-to-noise ratio
- Acoustic Overload Point (AOP) of 128 dBSPL
- > Tight sensitivity (-36 ±1 dB) tolerance
- > 20 Hz low frequency roll-off
- Digital PDM output
- > 980 μA current consumption

Package information



Benefits

- > Far-field and low volume audio pick-up
- Clear audio signals even for highest sound pressure levels
- Highest precision of audio beams and algorithms

Typical applications

- Voice User Interface (VUI):
 e.g. smart speaker, home
 automation, and IOT devices
- Active Noise Cancellation (ANC): headphones and earphones
- High quality audio capturing:
 e.g. cameras, laptop, tablet, and conference systems