Audio

Buzzers, Microphones & Speakers

A product’s ability to accurately take-in and clearly output audio signals is a vital part of its design. To ensure that your product finds its proper voice, we have developed a diverse range of compact buzzers, microphones, and speakers that minimize footprints and maximize reliability, making them the ideal audio solution for almost any application.

Featured Tech

Waterproof Audio Solutions

Designed to protect against moisture and other environmental contaminants, CUI Devices offers a range of buzzers, microphones, and speakers with Ingress Protection (IP) ratings, including IPX5, IP65, IPX7, IP57, IP67, IPX8, and IP68. With a variety of configurations, packages sizes, and performance specifications, our waterproof audio products give engineers additional flexibility when designing for industrial, outdoor, or any application where environmental factors may be a concern.

Micro Audio Solutions

To address the continued miniaturization of electronic designs, CUI Devices carries a range of micro buzzers, microphones, and speakers in ultra-compact footprints. We offer buzzers with package sizes as small as 3.2 x 3.2 mm, microphones as small as 2.75 x 185 x 0.90 mm, and speakers as small as 10 x 10 mm, making them ideal for a variety of portable equipment, handheld devices, and space-constrained applications.

Engineering Tools

Resource Library

Gain access to a wide range of videos, blogs, ebooks, webinars, and more to assist in your next design.

CAD Model Library

Save time and resources by utilizing our library of free, ready-made 3D models and PCB footprints to help you to streamline the design process.

Audio Calculators

Use our buzzer and speaker SPL calculators as well as our speaker power calculator to quickly solve or convert a range of key audio specifications.

Global Stock Availability

Our network of global distribution partners provides you with quick and easy access to thousands of our audio products, ready to ship same day across the globe.
## Audio Product Line

### Buzzers
**Piezo and Magnetic Technology**
- Indicators, transducers, piezo elements & sirens
- Available with & without driving circuit
- Package sizes as small as 3.2 mm
- Profiles as low as 0.23 mm
- 65 to 115 dB sound pressure levels
- Numerous mounting styles
- 300 to 5,000 Hz rated frequencies
- Waterproof models up to IP68
- IEC 60601-1-8 medical buzzers available
- Illuminated buzzer models available

### Microphones
**Electret Condenser and MEMS**
- Omnidirectional, unidirectional & noise canceling directivity
- -54 to -24 dB sensitivities
- Sensitivity tolerances as low as 1 dB
- 55 to 72 dBA signal to noise ratios
- Packages as small as 2.75 x 1.85 x 0.95 mm
- Low current draw down to 80 mA
- Terminal, pin, wire & surface mount termination types
- Reflow solder compatible models
- Operating frequencies up to 20,000 Hz
- Waterproof models up to IP67

### Speakers
**10 to 205 mm Package Sizes**
- Oval, rectangular, round & square frame shapes
- 72 to 120 dB sound pressure levels
- Variety of cone types
- 2 to 84 mm heights
- Alnico, Ferrite, Nd-Fe-B & Sm2Co17 magnet types
- Numerous mounting styles
- 50 to 3,000 Hz resonance frequencies
- Enclosed speaker models
- Waterproof models up to IP67 and IPX8

## Custom Capabilities

### Mechanical Modifications
- Custom size & height profiles
- Modified mounting styles
- Alternate materials for housing, pins & plating

### Electrical Adjustments
- Operating voltage
- Sensitivity rating
- SNR rating
- Impedance
- Current consumption

### Additional Modifications
- Washable stickers over sound holes
- IP ratings
- Operating/storage temperature ranges

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