Cirrus Logic Consumer and Mobile Audio Solutions

World-Class Audio Leadership

Cirrus Logic is the leading supplier of hardware and software solutions for audio signal processing from voice capture to audio playback in the newest technology found in mobile, consumer and automotive applications.
Best-in-Class Hardware and Software for a Voice Connected World

With a complete portfolio of products throughout the audio signal chain — from voice capture to playback — Cirrus Logic’s best-in-class, ultra low power ICs and patented SoundClear® software technology elevate the clarity and quality of the audio signal by enhancing voice quality, voice capture, speech recognition and audio playback.
Custom Audio Solutions

Designing a complete audio signal processing solution is specific to each customer’s goals and can involve numerous challenges both hardware and software related. Cirrus Logic selects professional service partners who can assist customers in navigating through a wide range of technical elements to deliver their desired audio performance. There are a number of key factors to consider when developing a design approach strategy.

Environment
- Inside, outside, confined space, room size, surface, material, ambient noise

User Interface
- 1 cm-15 m distance, speaker, headset, voice/gesture, microphones

Form Factor
- Mobile, wearable, portable, home, car

Features
- Voice Control, noise reduction, echo cancelation, wind noise reduction, HD audio record, speech recognition, communication

Performance Criteria
- Audio output, THD+N, jitter, noise reduction, power consumption, WER, and more...
A Global Network of Professional Service Partners

Combining hardware and software into a single audio solution can pose a unique set of challenges. Each customer’s design can have its own specific challenges ranging from form factor prototyping and acoustic tuning, to software stack integration. To assist customers in this development process, Cirrus Logic established a global network of trusted service partners who have been thoroughly vetted to provide customers with the right services to address these pivotal elements. This growing community of Professional Service Partners (PSPs) meets our exacting standards for quality and competence, and are fully equipped to support customers in perfecting the very best audio signal processing solution.

Quality
• Trained by Cirrus Logic
• Engineering support from Cirrus Logic and third party software partners

Scale
• Globally located
• Enables fast time-to-market
• Wide range of capabilities, no project too small!

Competence
• Software and hardware integration
• Full-form factor design
• Audio tuning, testing
Partner Competencies

Cirrus Logic’s growing community of Professional Service Partners are fully equipped and trained to address the challenges of building audio solutions tailored to each customer’s exacting specifications. Our PSP network can provide a wide range of technical competencies to support the implementation of hardware and software solutions.

Technical Know-How
- System and architecture
- Audio and acoustic
- Embedded software
- Hardware and mechanical

Proven Audio Track Record
- Demonstrable expertise and experience in audio sub-system design
- Audio products delivered to the marketplace

Audio Laboratory and Services
- Audio measurements
- Audio test equipment
- Acoustic equipment, facilities, measurement and tuning
PSP Business Model

The Cirrus Logic PSP network is structured to allow customers to engage directly with a preferred service provider. Cirrus Logic channel partners are available to assist customers in establishing a service agreement that defines the specific needs of their project.
## PSP Support Services

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<th>Service</th>
<th>Description</th>
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<td>Audio Solution Architecture</td>
<td>System and solution architecture definition, consultation</td>
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<tr>
<td>Mechanical and Acoustic Product Design</td>
<td>Product design expertise to acoustic and industrial design co-optimized solutions</td>
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<tr>
<td>Hardware and PCB Design</td>
<td>Schematic and PCB layout design, review</td>
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<td>Software Porting and Optimization</td>
<td>Porting from non-ADSP2 code base, and low power optimization</td>
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<td>Software Development and Integration</td>
<td>Development and integration services including Linux drivers and MCU</td>
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<td>Tuning Services</td>
<td>Dedicated acoustic labs to tune and optimize audio solutions</td>
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<td>Test, Validation and Certification</td>
<td>Solution tuning and testing (acoustic, electrical and more)</td>
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<td>Customer Support</td>
<td>Production ramp stages, mass production</td>
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Our Global Support Network

How can we work together? Contact us today.

For more information, visit support/partners/services on cirrus.com.