



## MAKING WAVES IN AUDIO

For creators of High Resolution Audio (HRA) products XMOS enables technical innovation and rapid product design to meet the demands of the pro-audio and consumer markets.



## xCORE

The first multicore microcontroller that meets all the demands of HRA

### TECHNICAL INNOVATION ... ENABLED

HRA applications demand speed & efficiency, robust bit perfect audio streaming and flexible multi-format audio connectivity. XMOS xCORE solutions remove all barriers to entry and provide real-time high-performance processing, enabling rapid technical innovation.

### PRODUCT DESIGN ... REALIZED

With XMOS xCORE solutions you can quickly create the designs you need to differentiate your products in the consumer and pro-audio market space. Realize greater clarity and detail of sound whilst retaining a convenient, portable and personalized design.

### COMPETITIVE ADVANTAGE ... DELIVERED

The HRA trend is moving fast and gaining momentum with all the key industry players. Don't get left behind. XMOS xCORE solutions deliver scalable reusable designs, future proofed products and reduced development times. The result: fast time to market and an increased competitive advantage.

### xCORE: The flexible software defined hardware solution

- ✓ Flexible audio connectivity
- ✓ Bit perfect audio streaming
- ✓ Multi-format audio support: PCM 384kHz, DSD512, DoP
- ✓ Low BoM solutions
- ✓ C software development
- ✓ Standards compliant solutions
- ✓ Apple MFi certified
- ✓ Royalty-free software
- ✓ Integrated development tools
- ✓ Easy design reuse
- ✓ Fast time to market

Enable your High Resolution Audio product: [www.xmos.com/hi-res-audio](http://www.xmos.com/hi-res-audio)



## xCORE customer benefits

Up to 70% BoM saving

XMOS

Compared to today's multi-chip fixed-function solutions

Up to 50% development time saving

XMOS

Compared to today's multi-chip disintegrated solutions

Up to 80% design reuse

XMOS

Compared to today's multi-chip complex systems

High resolution audio: PCM 384kHz, DSD512, DoP

No jitter. Bit perfect audio streaming

Multi-channel audio – up to 32 channels

### MERIDIAN

“Using XMOS we were able to replace three separate development systems, saving us over 3 months in development time. All our new products now use xCORE.”

### HARMAN INTERNATIONAL

“We have been impressed with how easily xCORE can be customized for our specific applications. The architecture is extremely agile.”

### KISS-BOX

“The programmability of the xCORE ports allowed us to greatly simplify the electronic design, since most of the processing is now done directly by the (xCORE) processor. The quality of the development tools permitted us to port our existing C code into the XS1 device in less than three weeks.”

### VESTAX

“The XMOS solution gave us the perfect starting point. Its flexibility allows us to easily customize the processor to our exact requirements. The single XMOS device replaces a number of components from our previous designs, dramatically upgrading our standard sound specifications, and reducing our material cost.”

## Leading consumer and pro-audio brands already using xCORE



beyerdynamic



SONY  VESTAX  SENNHEISER



JVC



NATIVE INSTRUMENTS



Learn more at: [www.xmos.com/hi-res-audio](http://www.xmos.com/hi-res-audio)



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