

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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xCORE-AUDIO Hi-Res 2

AFFORDABLE HI-RESOLUTION AUDIO PROCESSING FOR EVERYONE



FEATURES

- USB: 2 high resolution channels OUT
 - Up to 384 kHz (44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384) sample rates
 - Asynchronous Isochronous transfers
- CODEC: I2S or DSD
 - o 16, 24, or 32 bit PCM
 - O DoP64 and DoP128
- Optional S/PDIF output
 - O Up to 192 kHz, 16/24 bit resolution
- Flexible integration and control
 - o 8 GPIO system control
 - 0 8 GPI for HMI with optional HID inputs
 - I2C master for configuration and control
- Multiple OS support
 - Windows
 - o Mac OS X
 - Android
- Field upgrade capability
- Power
 - Bus/Self powered
 - O Consumption: 400 mW
- TQFP64 package

The xCORE-AUDIO™ Hi-Res 2 offers high resolution stereo audio interfacing to deliver precise output with low noise/distortion for soothing, high-quality sound at a price-point for mass-market consumer audio applications.

The xCORE-AUDIO Hi-Res 2 supports the full range of high resolution file formats, including PCM audio encoded at 384kHz/32-bit and DSD 2.8 MHz/5.6 MHz audio from any suitable source.

The built-in USB interface uses superior Asynchronous Isochronous transfers to ensure bit-perfect audio reproduction from a wide array of digital devices, including Android®, PC or Mac®. Example Android applications and a free Windows UAC2 stereo driver are available.

The xCORE-AUDIO Hi-Res 2 is configurable and customizable. Eight GPIO are available for implementing Human Machine Interfaces (HMI) and/or the control of external audio DAC devices. An I2C port is provided for system configuration.

The xCORE-AUDIO Hi-Res 2 is packaged in an easy-to-use 64 pin TQFP for low-cost system integration.



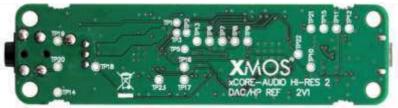
APPLICATION AREAS

- Headphone amplifiers
- Tablet docks
- USB speakers

- Audio DACs
- PC sound cards
- Hi Resolution speakers

xCORE-AUDIO Hi-Res DAC/HPA PLATFORM





	Feature	Benefit
•	High-speed USB 2.0 device	Plug-and-play operation Bus- or self-powered
(()	USB Audio Class 2.0 compliant	Driverless operation with Mac OS X ¹ and Android ² Multiple driver vendors for Windows
-7_	2-channel streaming from host at up to 384kHz PCM	Highest resolution stereo playback
	Local clocking Asynchronous USB audio transfer	Low jitter, high quality audio capture and playback
-	Highly integrated	Lowest total system cost and smallest form-factors

ORDERING INFORMATION

For a list of XMOS distributors, please visit www.xmos.com/support/distributors.

Part number	Contents
XHRA-2HPA-TQ64-C	xCORE-AUDIO HiRes-2 processor (XHRA-2)
XK-USB-AUDIO-HPA	xCORE-AUDIO Hi-Res DAC/HPA platform



^{1:} Mac OS X v10.6.4 and later provides native USB Audio Class 2.0 support.
2: Requires that Android device is USB host with USB Audio Class support. Tested against: Samsung Galaxy S3, S4, Note, Sony Xperia Z1, HTC One.