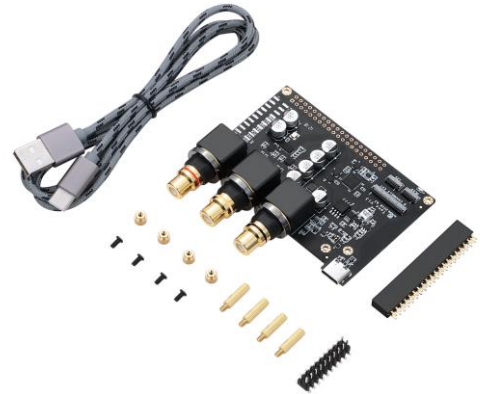
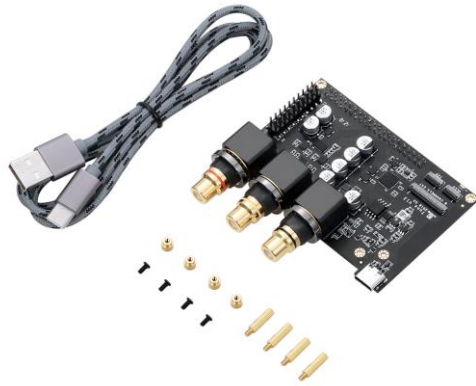




Khadass Tone Board Specifications



Edition	VIMs Edition	Generic Edition
XMOS	XU208-128-QF48 8 xCores, Core Share up to 500 MIPS	
DAC	ES9038Q2M 32-Bit Stereo Mobile Audio DAC	
THD+N	≤ 0.000337% @1KHz	
SNR	≥ 120dB @ 10Hz~20KHz	
DNR	≥ 120dB @ 10Hz~20KHz	
Crosstalk	≥ 127dB @ 10Hz~20KHz	
Frequency Response	±0.08 dB @ 10Hz~20KHz	
Sample Rate	PCM: Up to 384KHz @ 32bit DSD: Up to DSD256 @ 1bit	
Clock Jitter	Reference Clock Jitter < 3ps Data Clock Jitter < 30 ps	
Audio Formats	APE2/FLAC/OGG/WAV/ACC/ALAC/MP3/WMA...	
USB-C Port	Power Supply(5V/500mA) & USB 2.0 Data	
Line Out	1x Red RCA for Right Channel, 1 x White RCA for Left Channel	
Indicator	White LED x1	
Mounting Holes	Size M2 x 5	
FPC Connector	30-Pin 0.5mm Pitch: for 8 Channels Extension	
FPC Connectors	10-Pin 0.5mm Pitch: for VIMs I2S Extension 10-Pin 0.5mm Pitch: for OLED Display	NC
S/PDIF IN	Up to 192KHz	Up to 192KHz
S/PDIF OUT	Yes	Not Support
40-PIN Header	2.54mm Pitch Female	Not Soldered
20-PIN Header	2.54mm Pitch	Not Soldered
Dimensions	82.0 x 74.5 x 24.0 mm	82.0 x 74.5 x 17.0 mm
Compatibility	Android [1] LibreELEC Linux Distros(Support Volumio)	Windows PC Linux PC macOS Raspberry Pi [2]
In the Box	Tone Board VIMs Edition Screws set	Tone Board Generic Edition Screws set Header: 40 PIN Female Header: 20 PIN
Certifications	CE, RoHS	

[1] Android support only 44.1KHz output due to the Sample Rate Conversion(SRC) resampling implementations.

[2] Should also support other Single Board Computers(SBCs).