

Axoloti Core VS Ksoloti Core Hardware Comparison

Item	Axoloti Core rev1.2	Ksoloti Core rev0.5
MCU	168MHz STM32F427 microcontroller	168MHz STM32F427/429 microcontroller
SDRAM	8 MB	32 MB
CODEC	ADAU1961, 24bit/96kHz capable stereo audio ADC/DAC (editor and firmware currently only supports 24bit/48kHz)	ADAU1761/1961, 24bit/96kHz capable stereo audio ADC/DAC (editor and firmware currently only supports 24bit/48kHz)
MOUNTING HOLES	8 M3 mounting holes	4 M3 mounting holes
BOARD DIMENSIONS	160mm * 50mm	59mm * 90mm
AUDIO IN	1 TRS stereo 6.35mm jack	Pin header
AUDIO OUT	1 TRS stereo 6.35mm jack	Pin header
LATENCY, IN TO OUT	ca. 2 ms	
HEADPHONES OUT	1 TRS stereo 3.5mm jack	Pin header, optional TRS stereo 3.5mm jack on bottom side of PCB
USB POWER/PROGRAMMER	Micro USB socket facing rear	USB Type-C socket facing rear
USB HOST	USB A socket facing rear	USB Type-C socket facing rear, provides up to 1A to connected device (USB MIDI controller etc.)
DC POWER	On-board switching power supply, 2.1mm * 5.5mm barrel jack, DC input 7.5V-15V	No 5V regulator on board. Feed 5V via USB or pin header. Optional power/MIDI board available
MIDI IN	DIN-5 MIDI socket	Optional MIDI in circuit on bottom side of PCB via pin header
MIDI OUT	DIN-5 MIDI socket	Pin header
SWITCHES	S1, S2 facing rear	S1, S2 facing top, also accessible via pin header
LEDS	LED1, LED2 facing rear	LED1, LED2 facing top, also accessible via pin header

SD CARD	Micro SD card socket facing rear	Micro SD card socket facing rear, also accessible via pin header
DIGITAL MICROPHONE	-	Pin header for up to 2 digital microphones
GPIOA	A0-A7	A0-A7, A9, A10 (=Button S2), A15
GPIOB	B0, B1, B6-B9	B0, B1, B3, B4, B5 (=Button S1), B6-B9, B12, B13
GPIOC	C0-C5	€0, C1, €2, €3, C4, C5, C6 (=LED2), C7
GPIOD	-	D3-D6
GPIOF	-	F6-F9
GPIOG	-	G6 (=LED1), G10-G12
FIRMWARE/PATCHER	Axoloti Patcher v1.0.12, Axoloti Patcher v2.0	Axoloti Patcher v1.0.12, Ksoloti Patcher v1.0.12
OBJECT COMPATIBILITY	100%	99% (GPIOs PC0, PC2, PC3 not available. Custom objects for new GPIOs available)