

Axoloti Core VS Ksoloti Core Hardware Comparison			
Item	Axoloti Core rev1.2	Ksoloti Core PCB v0.6 and earlier	Ksoloti Core PCB v0.7 and later
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	On-board MIDI input via pin header
MIDI OUT	DIN-5 MIDI socket	3.3V signal via pin header	On-board buffered MIDI output, 5V signal via pin header

<b>SWITCHES</b>	S1, S2 facing rear	S1, S2 facing top, also accessible via pin header
<b>LEDS</b>	LED1, LED2 facing rear	LED1, LED2 facing top, also accessible via pin header
<b>SD CARD</b>	Micro SD card socket facing rear	Micro SD card socket facing rear, also accessible via pin header
<b>DIGITAL MICROPHONE</b>	-	Pin header for up to 2 digital microphones
<b>GPIOA</b>	A0-A7	A0-A7, A9, A10 (=Button S2), A15
<b>GPIOB</b>	B0, B1, B6-B9	B0, B1, B3, B4, B5 (=Button S1), B6-B9, B12, B13
<b>GPIOC</b>	C0-C5	C0, C1, C2, C3, C4, C5, C6 (=LED2), C7
<b>GPIOD</b>	-	D3-D6
<b>GPIOF</b>	-	F6-F9
<b>GPIOG</b>	-	G6 (=LED1), G10-G12
<b>FIRMWARE/ PATCHER</b>	Axoloti Patcher v1.0.12, Axoloti Patcher v2.0	Axoloti Patcher v1.0.12, Ksoloti Patcher v1.0.12, v1.1.0
<b>OBJECT COMPATIBILITY</b>	100%	99% (GPIOs PC0, PC2, PC3 not available. Custom objects for new GPIOs available)