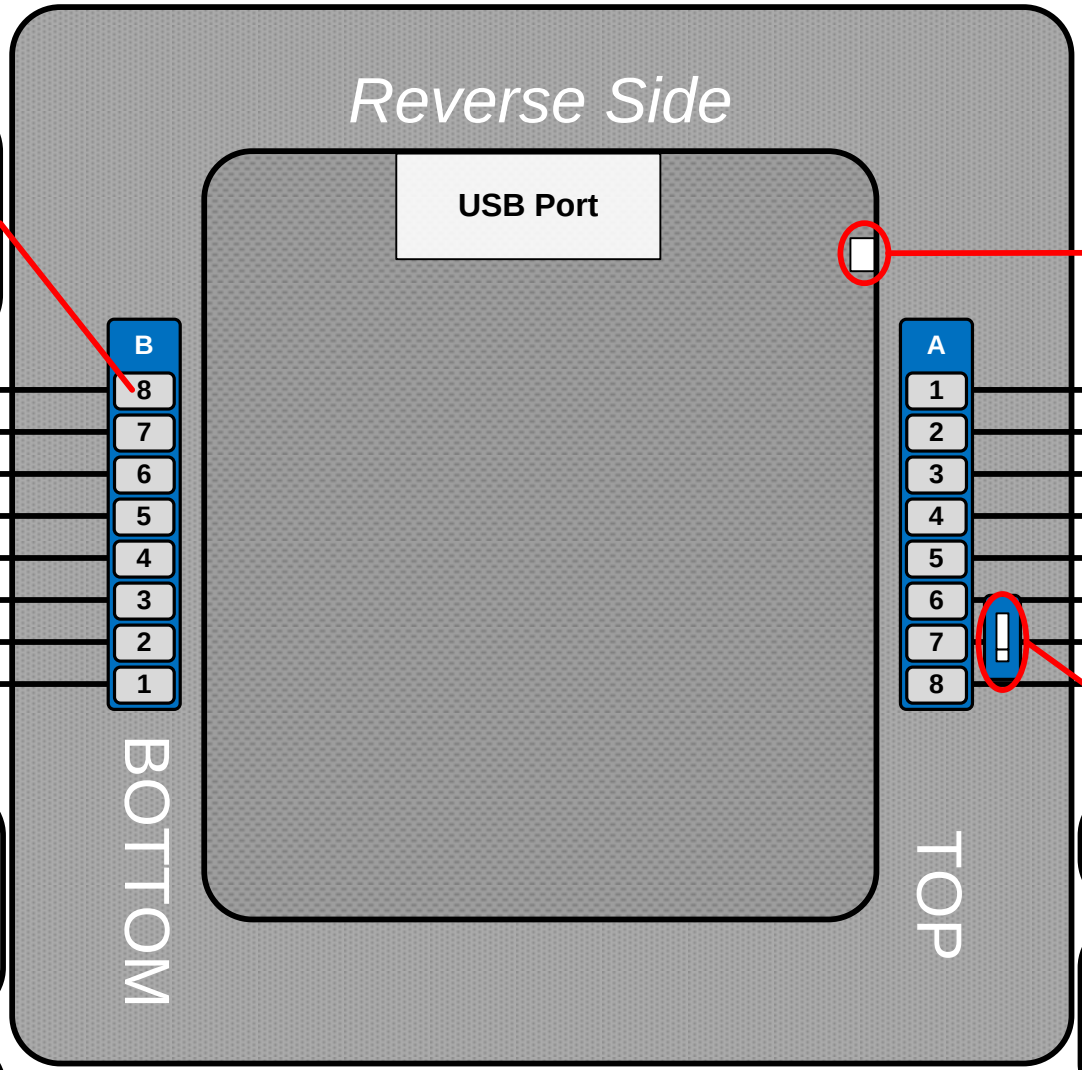
huVVer-AVI-3 MK1 Quick Reference

huVVer™

Version 2.0 Hardware Reference

Arduino IDE COMPATIBLE
ESPRESSIF IDF



Mating Connectors:
Molex 0022292081
(DigiKey WM2750-ND)

Pins:
Molex 0008550102
(DigiKey WM2312-ND)

Audio Right	AUDR	IO26
Audio Left	AUDL	IO25
Sensor Ground	GND	
Sensor +5V Output	+5V	
Sensor Input 2	X2	IO33
Sensor Input 1	X1	IO32
Relay Driver 2	OC2	IO12
Relay Driver 1	OC1	IO4

Reset Switch (hole on side)

IO22	TX1	RS232 TX1
IO21	RX1	RS232 RX1
IO17	TX2	RS232 TX2
IO16	RX2	RS232 RX2
IO14 TX IO27 RX	CANL	CAN L
	CANH	CAN H
	GND	Power Ground
	PWR	8V to 36V Input

CAN bus termination switch
Select down to enable

Internal Signals

Pushbutton 1 (B)	SW1	IO36
Pushbutton 2 (A)	SW2	IO39
Pushbutton 3 (C)	SW3	IO34
Pushbutton 4 (D)	SW4	IO35

Internal Signals

IO22	RS	CAN Driver Control

RS (IO22) controls the CAN transceiver mode. Float (set as input) for normal operation. Set LOW as an output to enable high speed operation. Set HIGH as an output to power down.

Sensor Input range on X1 and X2 are 0 to +5V. For 0 to +15V range, add external 100 KOhm series resistors.

The Sensor +5V Output and Sensor Ground allow powering of active sensors.

COLOR LEGEND

- Physical Pin
- ESP32 Function (ADC)
- Functional Name
- Descriptive Name
- Power
- Ground

Note: Device consumes up to 500 mA. Use 22 AWG power and ground wires protected by a 5 Amp fuse or breaker.

Do not exceed +/- 100 Volts on PWR input.