



# mRo AUAV2.1 AutoPilot Breakout

Top view

USB

Bottom connectors

Telem 1

GPS/I2C

Top connectors

CH4	CH1	GND
CH5	CH2	VOLT
CH6	CH3	CURR
GND	5VP	5Vin
GND	VS	S8
GND	VS	S7
GND	VS	S6
GND	VS	S5
GND	VS	S4
GND	VS	S3
GND	VS	S2
GND	VS	S1

U1Rx	GND	VCC spk
SORI	NC	GND
SIPI	VCC Rx	GND
AIR	5VP	GND
KILL	5VP	BUZZ
SAFE	LED	IO 3V3
GND	GND	GND
ADC2	U3RTS	ADC1
GND	U3CTS	GND
U8Rx	U3Rx	U7Rx
U8Tx	U3Tx	U7Tx
5VP	5VP	5VP

CAN

Top connectors

SWD IO

SWD FMU

Bottom connectors

## 0.1" Header Ports

	Aux outputs
	Power Module
	Main PWM outputs
	Usart CH8 (Serial 4)
	Usart CH3 (Serial 2)
	Usart CH7 (Serial 5)
	Safety switch / Led
	Buzzer
	Air sensor
	Kill input
	PPM in / SBUS in
	SBUS out / RSSI
	SPK Satellite

## JST-GH Ports

PORT	P1	P2	P3	P4	P5	P6
Telem 1	5V	TX	RX	CTS	RTS	GND
GPS/I2C	5V	TX	RX	SCL	SDA	GND
CAN	5V	C-L	C-H	GND		
USB	USB+	DM	DP	GND		
SWD IO	RESET	SWDIO	SWCLK	GND		
SWD FMU	RESET	SWDIO	SWCLK	GND		

## Serial Channels

Device	Channel ( Serial )
Telemetry 1	USART 2 (Serial 1)
GPS	USART 4 (Serial 3)
Telemetry 2	USART 3 (Serial 2)
Debug	USART 7 (Serial 5)
OSD	USART 8 (Serial 4)