pixhawk® 4 mini

Pinouts

RC IN

Pin	Signal	Voltage
1	VDD_5V_SBUS_RC	+5V
2	SBUS*	+3.3V
3	RSSI**	+3.3V
4	VDD_3V3_SPEKTRUM	+3.3V
5	GND	GND

*Connect SBUS or DSM/Spektrum receivers signal wire connect here.

**Sends the RC signal strength info to autopilot.

GPS MODULE

Pin	Signal	Voltage
1	VCC	+5V
2	TX (out)	+3.3V
3	RX (in)	+3.3V
4	SCL1	+3.3V
5	SDA1	+3.3V
6	SAFETY_SWITCH	+3.3V
7	SAFETY_SWITCH_LED	+3.3V
8	VDD_3V3	+3.3V
9	BUZZER	+3.3V
10	GND	GND

CAN

Pin	Signal	Voltage
1	VCC	+5V
2	CANH	+3.3V
3	CANL	+3.3V
4	GND	GND

TELEM

Pin	Signal	Voltage
1	VCC	+5V
2	TX (out)	+3.3V
3	RX (in)	+3.3V
4	CTS (in)	+3.3V
5	RTS (out)	+3.3V
6	GND	GND

UART & I2C B *

Pin	Signal	Voltage
1	VCC	+5V
2	TX (out)	+3.3V
3	RX (in)	+3.3V
4	SCL2	+3.3V
5	SDA2	+3.3V
6	GND	GND

POWER

Pin	Signal	Voltage
1 (red)	VCC	+5V
2 (black)	VCC	+5V
3 (black)	CURRENT	+3.3V
4 (black)	VOLTAGE	+3.3V
5 (black)	GND	GND
6 (black)	GND	GND

*A spare port for connecting sensors supporting serial communication or I2C e.g. a second GPS module can be connected here.

FMU DEBUG

Pin	Signal	Voltage
1	VT	+3.3V
2	TX	+3.3V
3	RX	+3.3V
4	SWDIO	+3.3V
5	SWCLK	+3.3V
6	GND	GND

MAIN OUT

Pins	Signal	Signal Voltage	+	-
1	FMU_CH1	+3.3V	VDD_SERVO	GND
2	FMU_CH2	+3.3V	VDD_SERVO	GND
3	FMU_CH3	+3.3V	VDD_SERVO	GND
4	FMU_CH4	+3.3V	VDD_SERVO	GND
5	FMU_CH5	+3.3V	VDD_SERVO	GND
6	FMU_CH6	+3.3V	VDD_SERVO	GND
7	FMU_CH7	+3.3V	VDD_SERVO	GND
8	FMU_CH8	+3.3V	VDD_SERVO	GND

PPM

Pin	Signal	Volt
S	PPM	+3.3V
+	VCC	+5V
-	GND	GND

ADC

Pin	Signal	Volt
3.3V	ADC1_SPARE_1	+3.3V*
6.6V	ADC1_SPARE_2	+6.6V*
GND	GND	GND

* WARNING: Sensors connected to this pin should not send a signal exceeding this voltage!

CAP

Pins	Signal	Signal Voltage	+	-
1	FMU_CAP1	+3.3V	+5V	GND
2	FMU_CAP2	+3.3V	+5V	GND
3	FMU_CAP3	+3.3V	+5V	GND
4	TIM5_SPARE_4	+3.3V	+5V	GND

USB

Pin	Signal	Voltage
1	VBUS	+5V
2	DM	+3.3V
3	DP	+3.3V
4	GND	GND