Holybro Docs

Pixhawk 6C Pinout
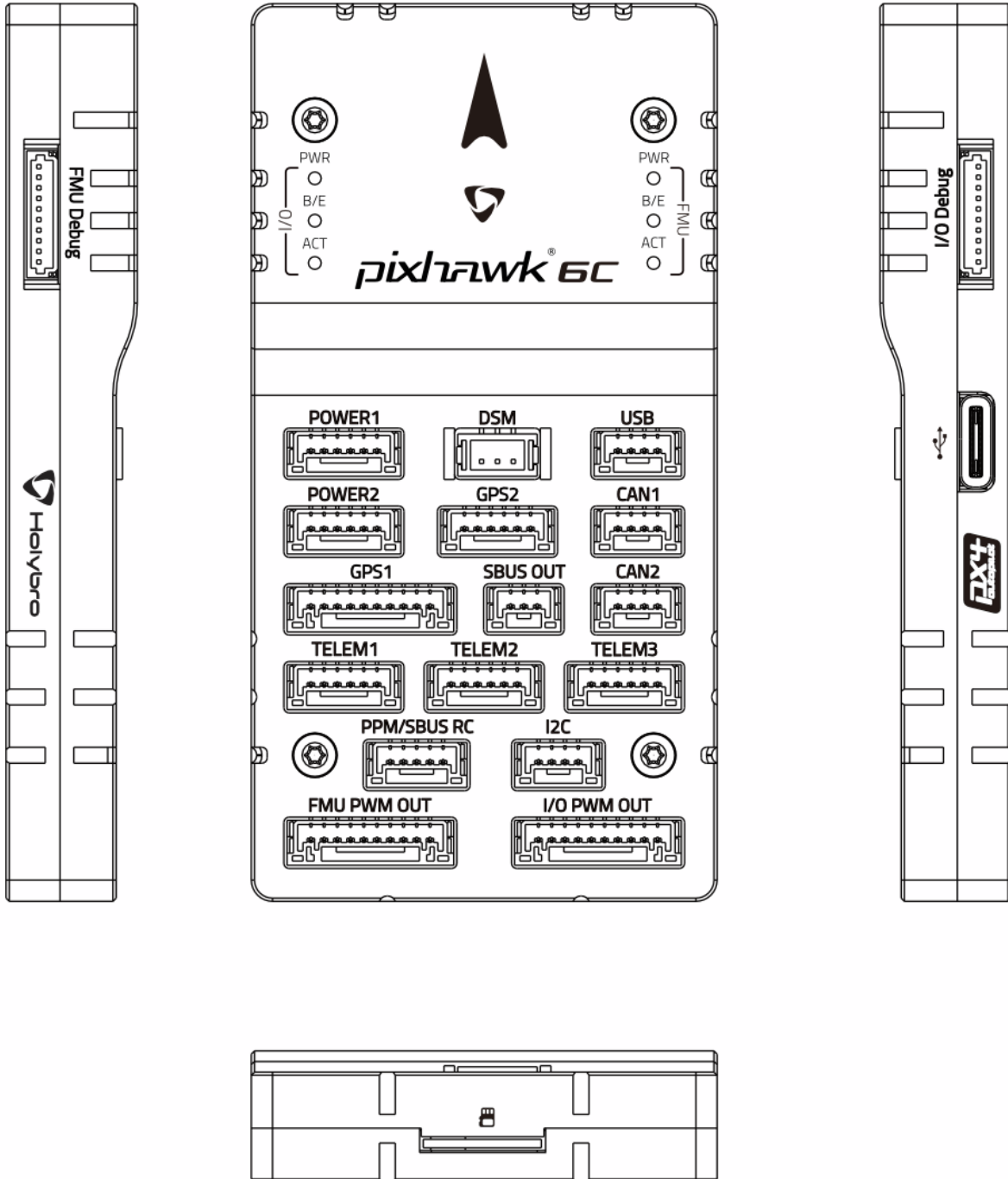
Power1 & 2

Pin	Signal	Voltage

1(red)	VDD5V_BRICK1 (in)	+5V
2(black)	VDD5V_BRICK1 (in)	+5V
3(black)	CURRENT1	+3.3V
4(black)	VOLTAGE1	+3.3V
5(black)	GND	GND
6(black)	GND	GND

Telem 1 Port

Pin	Signal	Voltage
1(red)	VCC	+5V
2(black)	UART7_TX(out)	+3.3V
3(black)	UART7_RX(in)	+3.3V
4(black)	UART7_CTS(in)	+3.3V
5(black)	UART7_RTS(out)	+3.3V
6(black)	GND	GND

Telem 2 Port

Pin	Signal	Voltage
1(red)	VCC	+5V
2(black)	UART5_TX(out)	+3.3V
3(black)	UART5_RX(in)	+3.3V
4(black)	UART5_CTS(in)	+3.3V
5(black)	UART5_RTS(out)	+3.3V
6(black)	GND	GND

Telem 3 Port

Pin	Signal	Voltage
1(red)	VCC	+5V

2(black)	USART2_TX(out)	+3.3V
3(black)	USART2_RX(in)	+3.3V
4(black)	I2C4_SCL	+3.3V
5(black)	I2C4_SDA	+3.3V
6(black)	GND	GND

GPS 1 Port

Pin	Signal	Voltage
1(red)	VCC	+5V
2 black)	TX1(out)	+3.3V
3(black)	RX1(in)	+3.3V
4(black)	SCL1	+3.3V
5(black)	SDA1	+3.3V
6(black)	SAFETY_SWITCH	+3.3V
7(black)	SAFETY_SWITCH_LED	+3.3V
8(black)	IO_VDD_3V3	+3.3V
9(black)	BUZZER-	0~5V
10(black)	GND	GND

GPS2 Port

Pin	Signal	Voltage
1(red)	VCC	+5V
2 black)	UART8_TX(out)	+3.3V
3(black)	UART8_RX(in)	+3.3V
4(black)	I2C2_SCL	+3.3V
5(black)	I2C2_SDA	+3.3V

6(black)	GND	GND

USB Port

Pin	Signal	Voltage
1(red)	VBUS	+5V
2(black)	DM	+3.3V
3(black)	DP	+3.3V
4(black)	GND	GND

I2C Port

Pin	Signal	Voltage
1(red)	VCC	+5V
2(black)	I2C4_SCL	+3.3V
3(black)	I2C4_SDA	+3.3V
4(black)	GND	GND

CAN1 & CAN2 Port

Pin	Signal	Voltage
1(red)	VCC	+5V
2(black)	CAN1_H	+3.3V
3(black)	CAN1_L	+3.3V
4(black)	GND	GND

DSM RC Port

Pin	Signal	Voltage
1(yellow)	VDD_3V3_SPEKTRUM	+3.3V
2(black)	GND	GND
3(gray)	DSM/SPEKTRUM IN	+3.3V

PPM/SBUS RC port

Pin	Signal	Voltage
1(null)	VDD_5V_PPM_SBUS	+5V
2(yellow)	PPM&SBUS_IN	+3.3V
3(null)	RSSI_IN	+3.3V
4(red)	(NOT CONNECTED)	--
5(black)	GND	GND

SBus Out Port

Pin	Signal	Voltage
1(red)	(NOT CONNECTED)	--
2(yellow)	SBUS_OUT	+3.3V
3(black)	GND	GND

FMU PWM Out

Pin	Signal	Voltage
1 (Red)	VDD_Servo	
2 (Black)	FMU_CH1	+3.3V
3 (Black)	FMU_CH2	+3.3V
4 (Black)	FMU_CH3	+3.3V
5 (Black)	FMU_CH4	+3.3V
6 (Black)	FMU_CH5	+3.3V
7 (Black)	FMU_CH6	+3.3V
8 (Black)	FMU_CH7	+3.3V
9 (Black)	FMU_CH8	+3.3V
10(Black)	GND	GND

I/O PWM Out

Pin	Signal	Voltage
1 (Red)	VDD_Servo	

2 (Black)	IO_CH1	+3.3V
3 (Black)	IO_CH2	+3.3V
4 (Black)	IO_CH3	+3.3V
5 (Black)	IO_CH4	+3.3V
6 (Black)	IO_CH5	+3.3V
7 (Black)	IO_CH6	+3.3V
8 (Black)	IO_CH7	+3.3V
9 (Black)	IO_CH8	+3.3V
10(Black)	GND	GND

FMU Debug Port

Pin	Signal	Voltage
1(red)	FMU_VDD_3V3	+3.3V
2 black)	FMU_USART3_TX	+3.3V
3(black)	FMU_USART3_RX	+3.3V
4(black)	FMU_SWD_IO	+3.3V
5(black)	FMU_SWD_CK	+3.3V
6(black)	SPI6_SCK_EXTERNAL1	+3.3V
7(black)	NFC_GPIO	+3.3V
8(black)	PH11	+3.3V
9(black)	FMU_nRST	+3.3V
10(black)	GND	GND

I/O Debug Port

Pin	Signal	Voltage
1(red)	IO_VDD_3V3	+3.3V

2 black)	IO_USART1_TX	+3.3V
3(black)	(NOT CONNECTED)	--
4(black)	IO_SWD_IO	+3.3V
5(black)	IO_SWD_CK	+3.3V
6(black)	IO_SWO	+3.3V
7(black)	IO_SPARE_GPIO1	+3.3V
8(black)	IO_SPARE_GPIO2	+3.3V
9(black)	IO_nRST	+3.3V
10(black)	GND	GND