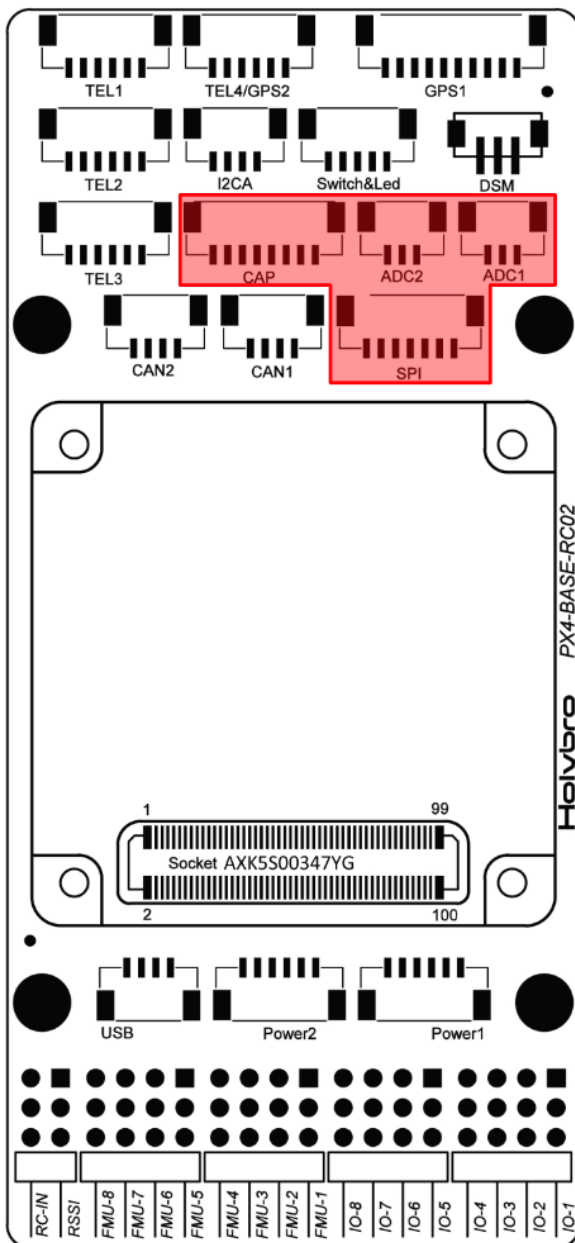


Holybro Docs

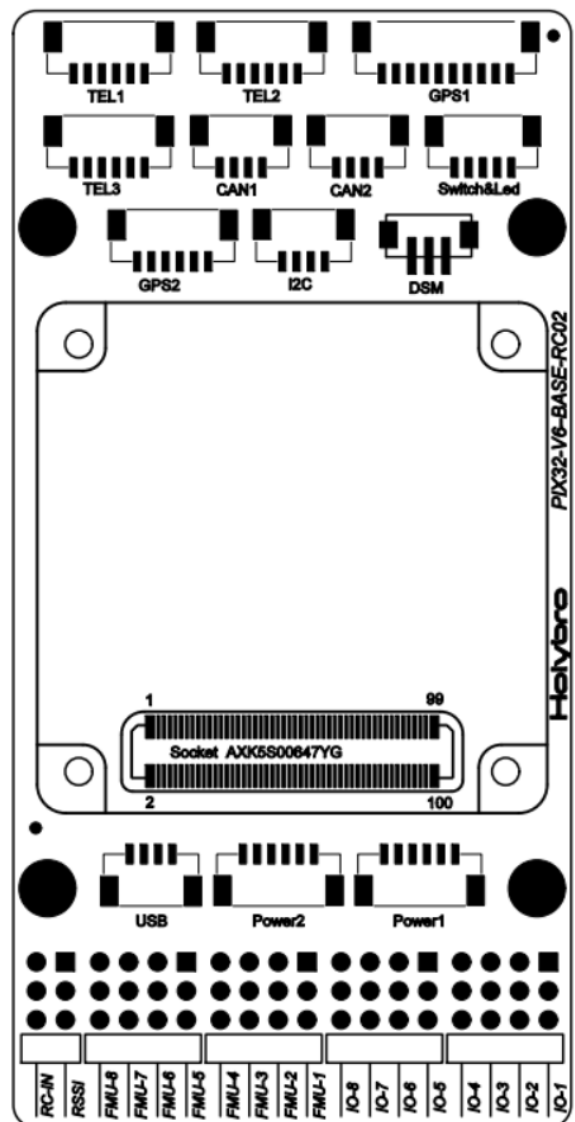
Pix32 v6 Baseboard Ports

⚠ **Pix32 v6** is compatible with **Pix32 v5** Baseboard and vice versa.

Due to the difference in Pin map, the following ports shaded in **red** in the diagram below will be non-functional when using a Pix32 v6 FC on a Pix32 v5 Baseboard.

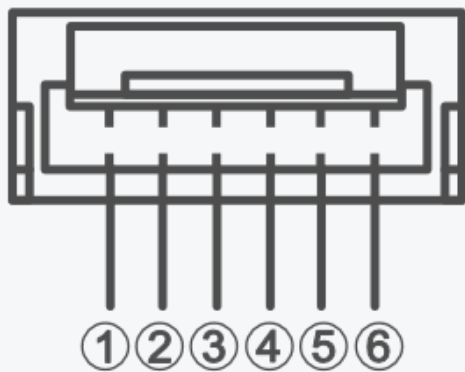


Pix32 v5 Baseboard



Pix32 v6 Baseboard

- i** Pin 1 starts from the flight controllers "Left side". All connectors are JST GH 1.25 mm Pitch unless noted otherwise.



Power 1 & 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)	(NOT CONECT)	--
5(black)	(NOT CONECT)	--
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)	I2C1_SCL1	+3.3V
5(black)	I2C1_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)	I2C2_SCL*	+3.3V
3(black)	I2C2_SDA*	+3.3V
4(black)	GND	GND

⚠ * For Pix32 v6 with SN number before **XXXX XXX 20221113** , (SN can be found on the packaging), I2C port is connected as follow:

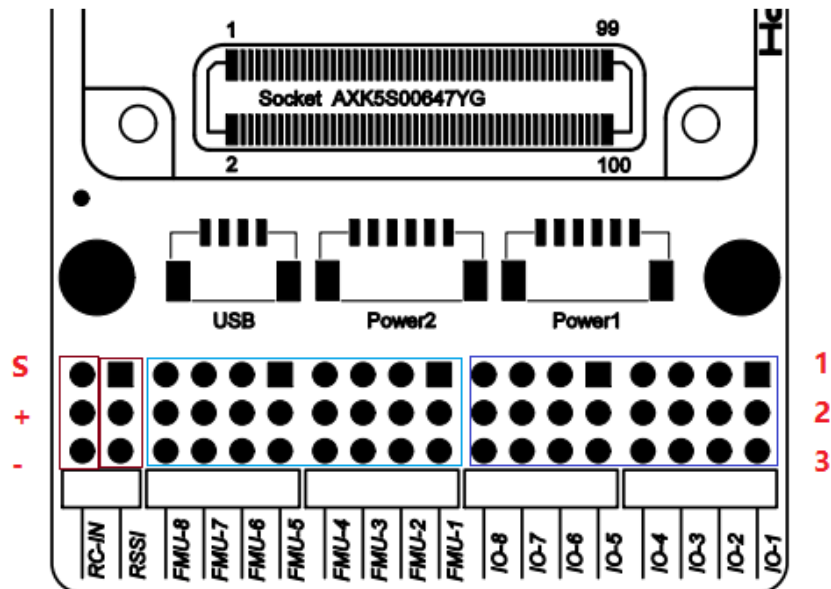
- pin 2 -> I2C4_SCL (3.3V)
- pin 3 -> I2C4_SDA (3.3V)

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 (JST-ZH 1.5mm)

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



FMU PWM OUT Port

Pin	Signal	Voltage
S	FMU_CH1~8	+3.3V
+	VDD_Servo	0-36V
-	GND	GND

I/O PWM OUT Port

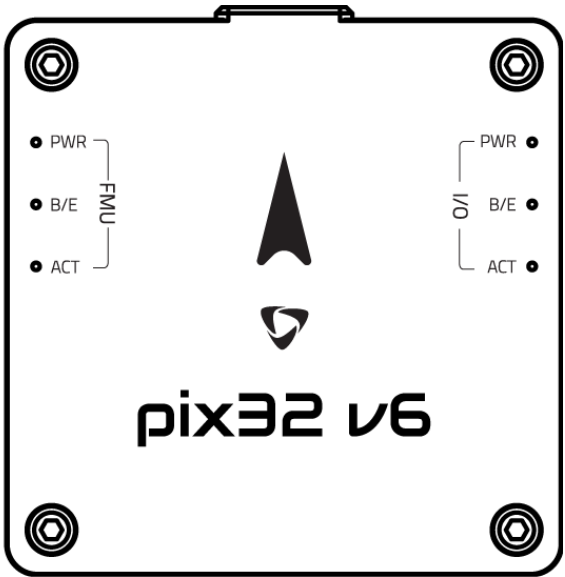
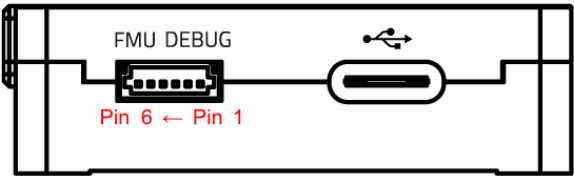
Pin	Signal	Voltage
S	IO_CH1~8	+3.3V
+	VDD_SERVO	0~36V
-	GND	GND

RSSI Port

Pin	Signal	Voltage
1(s)	SBUS_OUT/RSSI_IN	+3.3V
2(+)	VDD_SERVO	
3(-)	GND	GND

RC-IN Port

Pin	Signal	Voltage
1(S)	SBUS/PPM IN	+3.3V
2(+)	VDD_5V_RC	+5V
3(-)	GND	GND



FMU Debug Port (JST SH 1mm Pitch)

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)	GND	GND