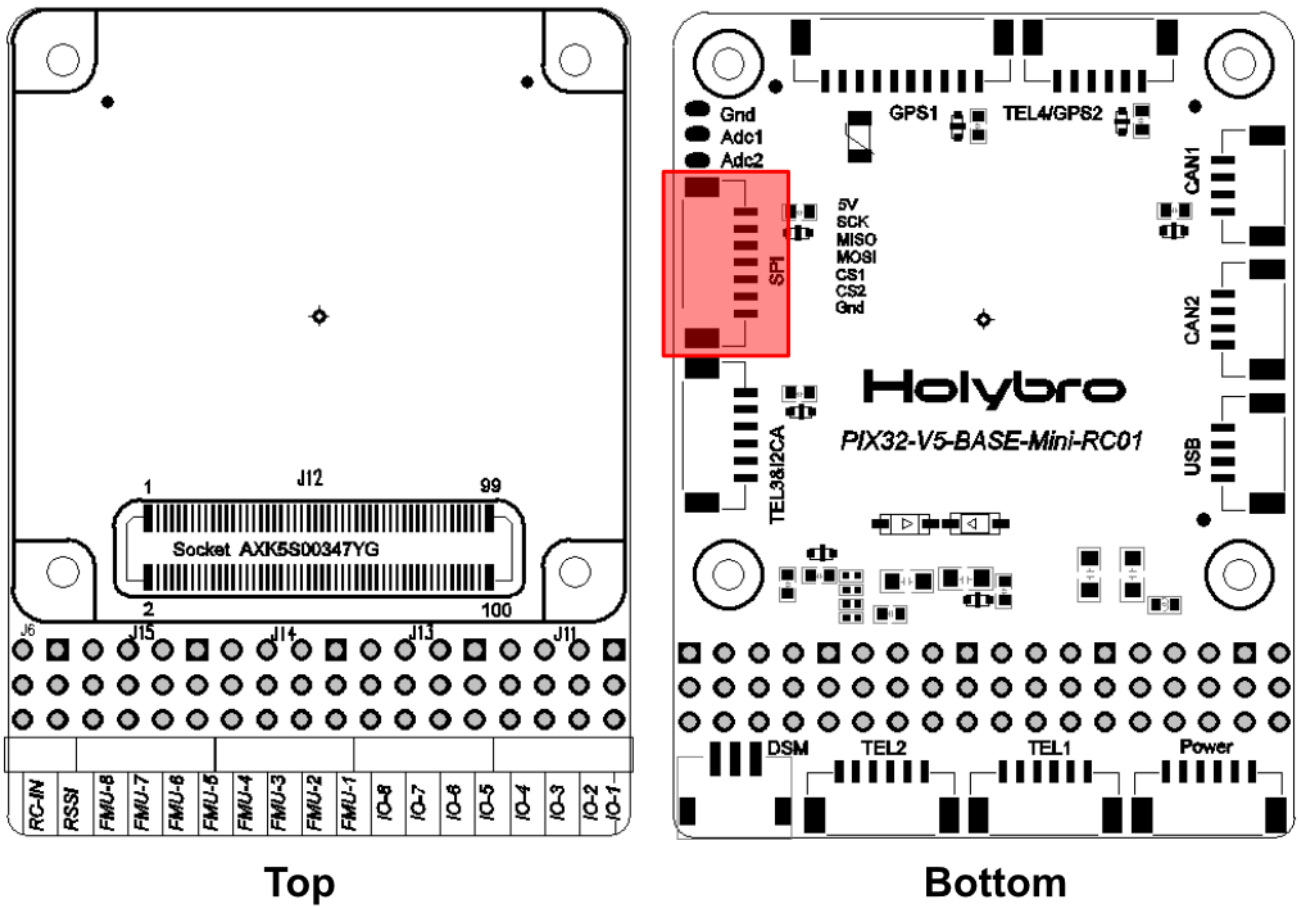


Holybro Docs

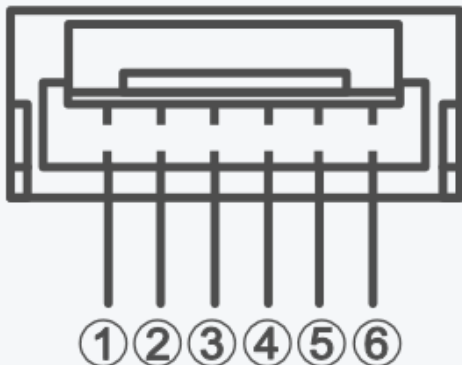
Pix32 v6 Mini-Base Ports

! Pix32 v6 Mini Baseboard is the same as Pix32 v5 Mini Baseboard.

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.



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



Power

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 & I2CA 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

TEL4/GPS2 Port

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

 I2C device such as airspeed sensor can be connect to this **TEL4/GPS2 Port** via a 6P <-> 6P+4P GH cable supplied in the cable set.

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

DSM Port (JST-ZH 1.5mm)

1(yellow)	VDD_3V3_SPEKTRUM	+3.3V
2(black)	GND	GND
3(gray)	DSM/Spektrum in	+3.3V

USB Port

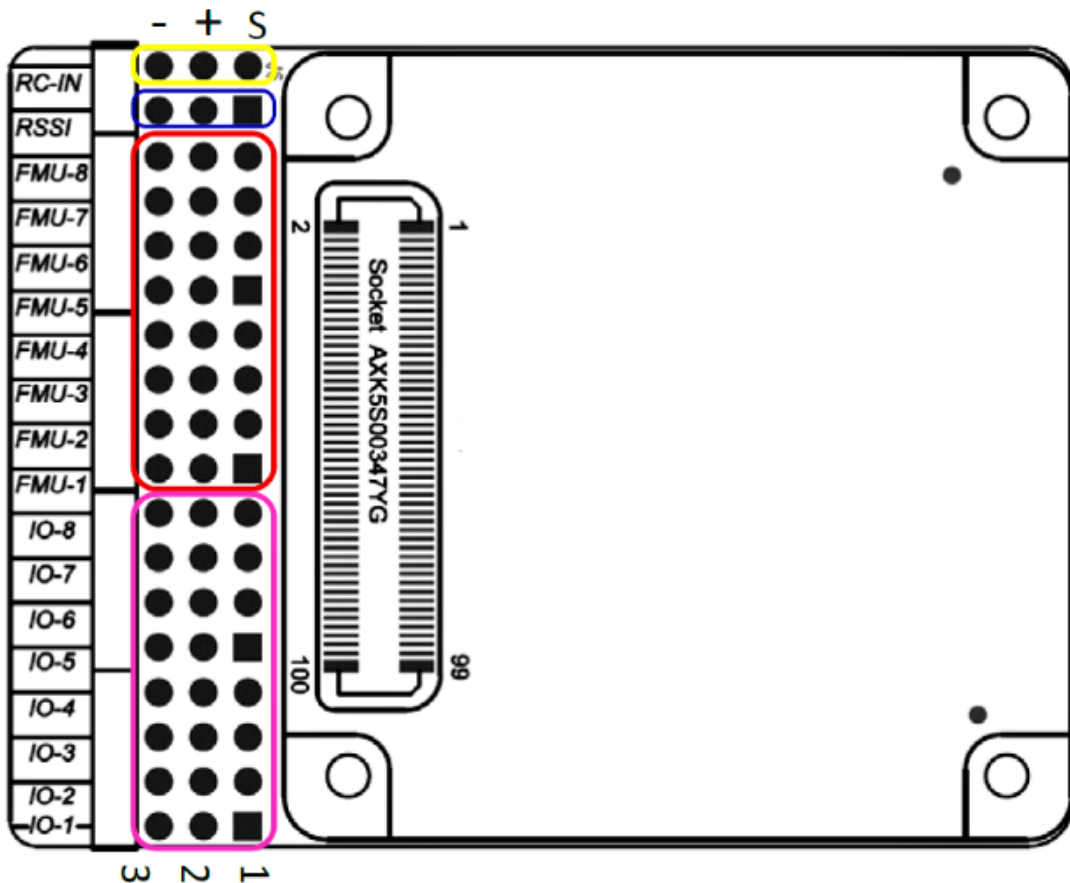
Pin	Signal	Voltage
1(red)	VBUS	+5V
2(black)	DM	+3.3V
3(black)	DP	+3.3V
4(black)	GND	GND

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

ADC PAD

Pad	Signal	Voltage
ADC1	ADC1_IN	+3.3V
ADC2	ADC2_IN	+6.6V
GND	GND	GND



FMU PWM OUT Port

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

I/O PWM OUT Port

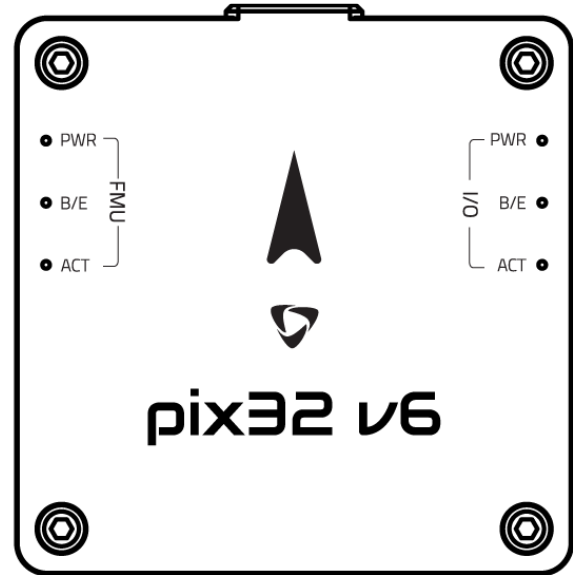
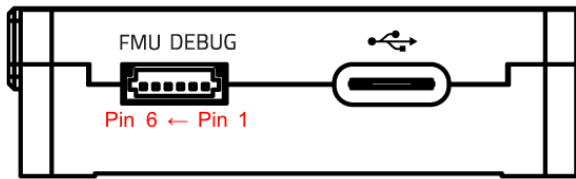
Pin	Signal	Voltage
S	IO_CH1~8	+3.3V
+	VDD_SERVO	0~36V
-	GND	GND

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