Color Code	XRP Usage	Header	Pin	Pin	Header	XRP Usage		XRP Usage	Header	Pin	Pin	Header	XRP Usage
Ground	MotorL/3 Current Limit	ML/3 VREF	61	21	GPIO16	Free	Radio Module	Free	GPIO15	20	60	MR/4 Fault	MotorR/4 Driver Fault
Power	MotorL/3 Driver Fault	ML/3 Fault	62	22	GPIO17	Free		Free	GPIO14	19	59	MR/4 VREF	MotorR/4 Current Limit
Control Signal	GND	GND	63	23	GND	GND		GND	GND	18	58	GND	GND
Status Signal	Encoder LA	GPIO30	64	24	GPIO18	Free		Free	GPIO13	17	57	GPIO33	Motor R IN2
RP2350 GPIO	Encoder LB	GPIO31	65	25	GPIO19	Free		Free	GPIO12	16	56	GPIO32	Motor R IN1
Radio GPIO	Motor L IN1	GPIO34	66	26	GPIO20	Motor 3 IN1		Motor 4 IN2	GPIO11	15	55	GPIO25	Encoder RB
LED	Motor L IN2	GPIO35	67	27	GPIO21	Motor 3 IN2	,	Motor 4 IN1	GPIO10	14	54	GPIO24	Encoder RA
Button/Switch	GND	GND	68	28	GND	GND		GND	GND	13	53	GND	GND
Motor	Encoder 3B	GPIO23	69	29	GPIO22	Encoder 3A	,	Servo 2	GPIO09	12	52	WL_IO2	Free
Servo	Power Good	PG	70	30	RUN	Reset Button		Servo 4	GPIO08	11	51	WL_IO1	Free
Sensor	Motor L Current	GPIO40	71	31	GPIO44	Line L		Servo 3	GPIO07	10	50	GPIO43	Motor R Current
I2C (Qwiic)	Motor 3 Current	GPIO41	72	32	GPIO45	Line R		Servo 1	GPIO06	9	49	GPIO42	Motor 4 Current
Free for User	GND	GND	73	33	GND	GND		GND	GND	8	48	GND	GND
Not Connected	WS2812 RGB LED	RGB_OUT	74	34	GPIO46	VIN Measure		Qwiic0 SCL	GPIO05	7	47	GPIO39	Qwiic1 SCL (IMU)
	Servo Power	5V	75	35	VREF	Analog Reference		Qwiic0 SDA	GPIO04	6	46	GPIO38	Qwiic1 SDA (IMU)
	After Power Switch	VIN	76	36	3V3	System Power		Encoder 4B	GPIO03	5	45	IMU INT1	IMU Interrupt 1
	Main Power Switch	VIN_EN	77	37	3V3_EN	3V3 Regulator Enable		Encoder 4A	GPIO02	4	44	IMU INT2	IMU Interrupt 2
	GND	GND	78	38	GND	GND		GND	GND	3	43	GND	GND
	Before Power Switch	VRAW	79	39	VSYS	Before 3.3V Regulator		Distance Echo	GPIO01	2	42	BOOTSEL	Boot Button
	Battery Power	VBATT	80	40	VBUS	USB Power	USB-C	Distance Trigger	GPIO00	1	41	GPIO36	User Button