

LoPy Rover: Pinout

Microcontroller: LoPy by Pycom

Port	I/O	Eagle Schematic	Connected Component	Component Pin	Connected Eagle Schematic
5	IN	5V-PIN5:14	Encoder A: Sensor A	HALL SENSOR A Vout	MOTORA: 5
6	IN	5V-PIN5:13	Sensor B	HALL SENSOR B Vout	MOTORA: 6
7	IN	5V-PIN5:12	Encoder B: Sensor A	HALL SENSOR A Vout	MOTORB: 5
8	IN	5V-PIN5:11	Sensor B	HALL SENSOR B Vout	MOTORB: 6
11	IN	5V-PIN5:10	Encoder C: Sensor A	HALL SENSOR A Vout	MOTORC: 5
10	IN	5V-PIN5:9	Sensor B	HALL SENSOR B Vout	MOTORC: 6
12	IN	5V-PIN5:8	Encoder D: Sensor A	HALL SENSOR A Vout	MOTORD: 5
13	IN	5V-PIN5:7	Sensor B	HALL SENSOR B Vout	MOTORD: 6
15	NC	5V-PIN5:6	NC	No Connection	
14	NC	5V-PIN5:5	NC	No Connection	
17	OUT	5V-PIN5:4	Driver D: PHASE	DVR8838: PH	JP12:4
3.3V		5V-PIN5:3	NC	No Connection	
GND		5V-PIN5:2	GND of 5V Regulator	GND	5V_REGULATOR_2:3
5V		5V-PIN5:1	Output of 5V Regulator	VOUT	5V_REGULATOR_2:2
42	OUT	RST-PIN42:14	Driver D: EN	DVR8838: EN	JP12:3
39	OUT	RST-PIN42:13	Driver B: PHASE	DVR8838: PHASE	JP8:4
20	OUT	RST-PIN42:12	Driver B: EN	DVR8838: EN	JP8:3
18	OUT	RST-PIN42:11	Driver C: PHASE	DVR8838: PHASE	JP10:4
22	OUT	RST-PIN42:10	Driver C: EN	DVR8838: EN	JP10:3
38	OUT	RST-PIN42:9	Driver A: Phase	DVR8838: PHASE	JP6:4
16	OUT	RST-PIN42:8	Driver A: EN	DVR8838: EN	JP6:3
34	OUT	RST-PIN42:7	Transistor pin	2N222A: BASE	Q1:B
21	RX1	RST-PIN42:6	IMU	IMU: TX0	IMU: 2
24	TX1	RST-PIN42:5	IMU	IMU: RX1	IMU: 3
23	OUT	RST-PIN42:4	GPS	GPS: EN	GPS:6
41	TX0	RST-PIN42:3	GPS	GPS: RX	GPS:2
40	RX0	RST-PIN42:2	GPS	GPS: TX	GPS:3
RST	NC	RST-PIN42:1	NC	No Connection	