

	Pin		Connection	Color	Terminal block
Inputs	gpio.02		Home	red	green
	Gnd			white	blue
	gpio.26		Fault (stepper drives in parallel)	red	
	Gnd			black	
	gpio.33		Feed Hold	green	green/white
	Gnd			blue	green/brown
	gpio.32		Cycle Start	yellow	yellow/white
	Gnd			black	yellow/brown
Inputs	gpio.35		Z +/-	white	
	Gnd			brown	
	gpio.34		X +/-	grey	
	Gnd			pink	
	gpio.39		Y left +/-	green	1
	Gnd			yellow	2
	gpio.36		Y right -	blue	3
	Gnd			red	4
E-Stop	+	---	---	red (PS)	blue/red
	-	---	red (Relay)	red (ON SW)	grey/pink
Outputs	gpio.12	5V	[MOSFET]	---	
	Gnd			---	
	gpio.04	5V	[MOSFET]	---	
	Gnd			---	
	gpio.13	5V	[open]	---	
	Gnd			---	
	gpio.14	5V	[open]	---	
	Gnd			---	
RS485	gpio.15	RS485 A	unused	---	
	gpio.16	RS485 B		---	
	gpio.14	Gnd		---	
0-10V	gpio.14	out2/rev	unused	---	
	gpio.15	out1/fwd		---	
	out common			---	
	gpio.13	0-10V		---	
	Gnd			---	
MOSFET	gpio.12		(open)	---	
	VMot	3.0A max		---	
	gpio.04		Spindle Relay SSR 25A DC to AC 3-32 VDC input	green	
	VMot	3.0A max		blue	
Power Input	Gnd		12V 10A Supply fused @ 2A	black	
	VMot	9-30 VDC		red	

Pin	Pin (Count All)
-	1
+	1
+3.3V	1
+5V	2
Gnd	22
gpio.02	1
gpio.04	2
gpio.05	1
gpio.12	2
gpio.13	2
gpio.14	3
gpio.15	2
gpio.16	1
gpio.18	1
gpio.19	1
gpio.23	1
gpio.25	1
gpio.26	1
gpio.27	1
gpio.32	1
gpio.33	1
gpio.34	1
gpio.35	1
gpio.36	1
gpio.39	1
i2so.00	1
i2so.01	1
i2so.02	1
i2so.04	1
i2so.05	1
i2so.07	1
i2so.08	1
i2so.09	1
i2so.10	1
i2so.12	1
i2so.13	1
i2so.15	1
i2so.16	1
i2so.17	1
i2so.18	1
i2so.20	1
i2so.21	1
i2so.23	1

	Pin		Connection	Color	Terminal block
Motor 1	i2so.00	Enbl	Z	green	
	i2so.02	Step		yellow	
	i2so.01	Dir		blue	
	Gnd			black	
Motor 2	i2so.07	Enbl	X	green	
	i2so.05	Step		yellow	
	i2so.04	Dir		blue	
	Gnd			black	
Motor 3	i2so.08	Enbl	Y Left	green	
	i2so.10	Step		yellow	
	i2so.09	Dir		blue	
	Gnd			black	
Motor 4	i2so.15	Enbl	Y Right	green	
	i2so.13	Step		yellow	
	i2so.12	Dir		blue	
	Gnd			black	
Motor 5	i2so.16	Enbl	[open]	---	
	i2so.18	Step		---	
	i2so.17	Dir		---	
	Gnd			---	
Motor 6	i2so.23	Enbl	[open]	---	
	i2so.21	Step		---	
	i2so.20	Dir		---	
	Gnd			---	
Expansion	gpio.27		unused (expansion module)	---	
	gpio.25			---	
	+5V			---	
	VMot			---	
	Gnd			---	
Onboard Power	VMot				
	+5V				
	+3.3V				
	Gnd				
spi	gpio.19	miso	On Board	---	
	gpio.23	mosi		---	
	gpio.18	sck		---	
sdcard	gpio.05	cs		---	
pendant	+12		TBD	---	purple
	-12			---	black
	on+			---	pink
	on-			---	grey

out common	1
VMot	5