

Pin #	M5 Function	Tec-Bot Function	Output Test	Input Test	Notes		Color Key
0	I2S	QTR header (pin 1)	-	x			Can be used for input or output without conflict
1	Serial (USB)	LEDs	x	x			
2			-	-	Use for QTR pin 1		Can be used for only input or only output
3	Serial (USB)		-	x			
5		QTR header (pin 2)	-	-			Not usable as input or output
12	I2S		-	-			
13	I2S	Grove Connector (1)	-	-			Can be used, but conflicts with TEC-Bot function
15	I2S	QTR header (pin 3)	-	-			
16	Serial 2	Serial2 (Nano)	x	x			
17	Serial 2	Serial2 (Nano)	x	x			
18	uSD card (SCK)		x	x			
19	uSD card (MISO)	Grove Connector (2)	-	x			
21	I2C (SDA)	MPU9250	x	x			
22	I2C (SCL)	MPU9250	x	x			
23	uSD card (MOSI)		x	x			
25	DAC1 (Speaker)		-	-	Can be used as input, but makes speaker beep		
26	DAC2	Grove Connector (1, 2)	-	-			
34	I2S	Grove Connector (4)	x	-			
35	ADC	Grove Connector (4, 5)	x	-			
36	ADC	Grove Connector (5)		-			
<b>Arduino Nano Pins</b>							
Pin #	Nano Function	Grbl 1.1 function	AccelStepper function				
0	Serial	Serial	Serial				
1	Serial	Serial	Serial				
2		X step	Motor 1 step				
3		Y step	Motor 2 step				
4		Z step					
5		X dir	Motor 1 dir				
6		Y dir	Motor 1 dir				
7		Z dir					
8		Stepper enable					
9		X limit switch					
10		Y limit switch					
11		Z limit switch					
12		spindle enable					
13		spindle direction					
A0	ADC	reset/abort					
A1	ADC	feed hold					
A2	ADC	cycle start/resume					
A3	ADC	coolant enable					
A4	ADC						
A5	ADC	probe					
A6	ADC						
A7	ADC						