Mach3	BIT #	JP12	JP13	JP15	JP8	50-pin	I/O	I/O #	JP4	JP6	JP5	50-pin	I/O
pin#		Kanalog	Kanalog	Kanalog	Kanalog	DSUB	Signal name		Kflop	Kflop	Kflop RJ45	DSUB	Signal name
Port#2		Gen IO	Opto Out	Opto In	FET Out				Aux #0	Aux #1	GP I/O #1		Cable#/pin#
0	**128**	3Vin_1						VDD5	1				
1	**129**	3Vin_2						VDD12	2				
2	**130**	3Vin_3						VDD33	3				
3	**131**	3Vin_4						Reset#	4				
4	**132**	3Vin_5						IO16_3V	5			35	← Worklight on
5	**133**	3Vin_6						IO17_3V	6			36	← Coolant on
6	**134**	3Vin_7						IO18_3V	7			red/bl	← Lube on
7	**135**	3Vin_8						GND	8				
8	**136**			+1 / 2-		47	← Limit -	GND	9				
9	**137**			3 / 4		49	← Home	IO19_3V	10				
10	**138**			5 / 6		48	← Limit +	IO20_3V	11				
11	**139**			7 / 8			← ToolHeight probe	IO21_3V	12				
12	**140**			9 / 10			← Spindle probe	IO22_3V	13				
13	**141**			11 / 12				IO23_3V	14				
14	**142**			13 / 14			← Lube lev. sensor	IO24_3V	15				
15	**143**			15 / 16			← Coolant lev. sens	IO25_3V	16				
16	**144**		+1 / 2-					VDD5		1			#1 K402
17	**145**		3 / 4					VDD12		2			#2 n/c
18	**146**		5 / 6					VDD33		3			#3 all 3V MPG out
19	**147**		7 / 8					Reset#		4			#4 n/c
20	**148**		9 / 10					IO26_3V		5			**→PWM to VFD**
21	**149**		11 / 12					IO27_3V		6			← #5 ch A
22	**150**		13 / 14					IO28_3V		7			← #6 ch B
23	**151**		15 / 16					GND		8			#8 GND

Mach3	BIT #	JP12	JP13	JP15	JP8	50-pin	I/O	I/O #	JP4	JP6	JP5		I/O
pin#		Kanalog	Kanalog	Kanalog	Kanalog	DSUB	Signal name		Kflop	Kflop	Kflop RJ45		Signal name
Port#2		Gen IO	Opto Out	Opto In	FET Out				Aux #0	Aux #1	GP I/O #1		Cable#/pin#
								GND		9			#9 n/c GND
24	**152**				1		→ LO	IO29_3V		10			← #7 X select
25	**153**				2		→ option	IO30_3V		11			← #10 Y select
26	**154**				3		→ Hi	IO31_3V		12			← #11 Z select
27	**155**				4		→ Coolant on	IO32_3V		13			← #12 x100
28	**156**				5		→HV to drivers	IO33_3V		14			← #13 x10
29	**157**				6		→Lube on + relay	IO34_3V		15			← #14 x1
30	**158**				7		**Forward to VFD (M3)**	IO35_3V		16			#15 n/c
31	**159**				8		**Reverse to VFD (M4)**	IO36			1		← Spindle ch A
					9	40	→ EnableAll (white)	IO37			2		← Spindle ch B
					10		VDD33	IO38			3		← Spindle ch Z
					11		VDD33	IO39			4		
					12		1.7V	IO40			5		← (X) Z+
					13		VDD5	IO41			6		← (Y) Z+
					14		VDD5	IO42			7		← (Z) Z+
					15		VDD5	IO43			8		← (A) Z+
					16		VDD5						
32	**160**	3Vout_9	**Via driver board**				→R Beacon						
33	**161**	3Vout_10					→Y Beacon						
34	**162**	3Vout_11					→G Beacon						
35	**163**	3Vout_12					→B Beacon						
36	**164**	3Vout_13	**Via driver board**			41	→Coolant Lev = y		Coolant level low warning light = read BIT 142				
37	**165**	3Vout_14				42	→MPG on =w		MPG activated light = read IO32 to 34				
38	**166**	3Vout_15				43	→Handcontrol =y		Handcontrol via USB/PoKeys active light				
39	**167**	3Vout_16				44	→Probe Active =r		Probe activated light = read BIT 139/140				
		In_0_17											
		In_0_18											
		In_0_19											
		In_0_20											
	n/c_21 to 24												