Mach3	BIT #	Konnect	JP1	JP12	JP13	JP15	JP8	50-pin	I/O	I/O #	JP4	JP6	JP5	50-pin	I/O
pin#		I/O	Kanalog	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				Konnect JP8
1	**129**			3Vin_2						VDD12	2				Konnect JP8
2	**130**			3Vin_3						VDD33	3				Konnect JP8
3	**131**			3Vin_4						Reset#	4				Konnect JP8
4	**132**			3Vin_5						IO16_3V	5				Konnect JP8
5	**133**			3Vin_6						IO17_3V	6				Konnect JP8
6	**134**			3Vin_7						IO18_3V	7				Konnect JP8
7	**135**			3Vin_8						GND	8				Konnect JP8
8	**136**					+1 / 2-		47	← Limit -	GND	9				Konnect JP8
9	**137**					3 / 4		49	← Home	IO19_3V	10				Konnect JP8
10	**138**					5 / 6		48	← Limit +	IO20_3V	11				Konnect JP8
11	**139**					7 / 8				IO21_3V	12				Konnect JP8
12	**140**					9 / 10				IO22_3V	13				Konnect JP8
13	**141**					11 / 12				IO23_3V	14				Konnect JP8
14	**142**					13 / 14				IO24_3V	15				Konnect JP8
15	**143**					15 / 16				IO25_3V	16				Konnect JP8
16	**144**				+1 / 2-					VDD5		1		red/bl	#1 K402
17	**145**				3 / 4					VDD12		2			#2 n/c
18	**146**				5 / 6					VDD33		3		ora	#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		bl	← #5 ch A
22	**150**				13 / 14					IO28_3V		7		blue	← #6 ch B
23	**151**				15 / 16					GND		8			#8 GND

Mach3	BIT #	Konnect	JP1	JP12	JP13	JP15	JP8	50-pin	I/O	I/O #	JP4	JP6	JP5		I/O
pin#		I/O	Kanalog	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		screen	#9 GND
24	**152**						1		→ LO	IO29_3V		10			← Spindle ch A
25	**153**						2		**Reverse VFD (M4)**	IO30_3V		11			← Spindle ch B
26	**154**						3		→ Hi	IO31_3V		12			← Spindle ch Z
27	**155**						4		→ Coolant on	IO32_3V		13			← (X) Z+
28	**156**						5			IO33_3V		14			← (Y) Z+
29	**157**						6	42	→Lube on + relay	IO34_3V		15			← (Z) Z+
30	**158**						7		**Forward VFD (M3)**	IO35_3V		16			← (A) Z+
31	**159**						8			IO36			1		→ Step X
							9	19	→ EnableAll (white)	IO37			2		→ Dir X
							10		VDD33	IO38			3		→ Step Y
							11		VDD33	IO39			4		→ Dir Y
							12		1.7V	IO40			5		→ Step Z
							13		VDD5	IO41			6		→ Dir Z
							14		VDD5	IO42			7		→ Step A
							15		VDD5	IO43			8		→ Dir A
							16		VDD5						
32	**160**			3Vout_9											
33	**161**			3Vout_10											
34	**162**			3Vout_11											
35	**163**			3Vout_12											
36	**164**			3Vout_13											
37	**165**			3Vout_14											
38	**166**			3Vout_15											
39	**167**			3Vout_16											
				In_0_17											
				In_0_18											
				In_0_19											
				In_0_20											
				n/c_21 to 24											

	BIT #	Konnect	JP1	JP12	JP13	JP15	JP8	50-pin	I/O	I/O #	JP4	JP6	JP5		I/O
		I/O	Kanalog	Kanalog	Kanalog	Kanalog	Kanalog	DSUB	Signal name		Kflop	Kflop	Kflop RJ45		Signal name
				Gen IO	Opto Out	Opto In	FET Out				Aux #0	Aux #1	GP I/O #1		Cable#/pin#
				V15_25											
				n/c_26											
				VM15_27											
				SwMisc_28											
				En_all_29											
				Fet_gate_30											
				VDD33_31											
				VDD33_32											
				VDD5_33											
				VDD5_34											
				VDD5_35											
				VDD5_36											
				GND_37											
				GND_38											
				GND_39											
				GND_40											

	BIT #	Konnect	JP1	JP12	JP13	JP15	JP8	50-pin	I/O	I/O #	JP4	JP6	JP5		I/O
		I/O	Kanalog	Kanalog	Kanalog	Kanalog	Kanalog	DSUB	Signal name		Kflop	Kflop	Kflop RJ45		Signal name
				Gen IO	Opto Out	Opto In	FET Out				Aux #0	Aux #1	GP I/O #1		Cable#/pin#
		Output 0							→R Beacon	IO48					
		Output 1							→Y Beacon	IO49					
		Output 2							→G Beacon	IO50					
		Output 3							→B Beacon	IO51					
		Output 4	Enable out						→Enable =W /PC on	IO52					Panel signals
		Output 5	Probe active – moving – flashing						→Probe Active =Y	IO53					Panel signals
		Output 6	MPG active Axis selected – flashing						→MPG active =W	IO54					Panel signals
		Output 7	Tool Height Active						→TH Active = Y	IO55					Panel signals
		Output 8	Lube active manual or automatic program – flashing						Lube Active = R	IO56					Panel signals
		Output 9	Probe = V IO 1031, M3 OFF M4 ON lowspeed possible						Probe Loaded = R	IO57					Panel signals
		Output 10								IO58					
		Output 11								IO59					
		Output 12								IO60					
		Output 13								IO61					
		Output 14								IO62					
		Output 15								IO63					
		Input 0						pink	← #7 X select	V IO 1024					MPG selectors
		Input 1						y	← #10 Y select	V IO 1025					MPG selectors
		Input 2						red	← #11 Z select	V IO 1026					MPG selectors
		Input 3						grey	← #12 x100	V IO 1027					MPG selectors
		Input 4						green	← #13 x10	V IO 1028					MPG selectors
		Input 5						white	← #14 x1	V IO 1029					MPG selectors
		Input 6								V IO 1030					
		Input 7							Probe	V IO 1031					
		Input 8							TH Probe	V IO 1032					
		Input 9							Gearbox 1	V IO 1033					
		Input 10							Gearbox 2	V IO 1034					
		Input 11							Gearbox 3	V IO 1035					
		Input 12								V IO 1036					
		Input 13						35	← Worklight on	V IO 1037					
		Input 14								V IO 1038					
		Input 15						36	← Coolant on	V IO 1039					
		Input 16						(red)/**bl**	← Lube on	V IO 1040					

		Input 17								V IO 1041					
		Input 18								V IO 1042					
		Input 19								V IO 1043					
		Input 20								V IO 1044					
		Input 21								V IO 1045					
		Input 22								V IO 1046					
		Input 23								V IO 1047					
		Input 24								V IO 1048					
		Input 25								V IO 1049					
		Input 26								V IO 1050					
		Input 27								V IO 1051					
		Input 28								V IO 1052					
		Input 29								V IO 1053					
		Input 30								V IO 1054					
		Input 31								V IO 1055					
	BIT #	**Konnect**	JP1	JP12	JP13	JP15	JP8	50-pin	I/O	**I/O #**	JP4	JP6	JP5		I/O
		I/O	Kanalog	Kanalog	Kanalog	Kanalog	Kanalog	DSUB	Signal name		Kflop	Kflop	Kflop RJ45		Signal name
				Gen IO	Opto Out	Opto In	FET Out				Aux #0	Aux #1	GP I/O #1		Cable#/pin#
			ChA+0						X-axis encoder						
			ChA-0						X-axis encoder						
			ChB+0						X-axis encoder						
			ChB-0						X-axis encoder						
			ChA+1						Y-axis encoder						
			ChA-1						Y-axis encoder						
			ChB+1						Y-axis encoder						
			ChB-1						Y-axis encoder						
			ChA+2						Z-axis encoder						
			ChA-2						Z-axis encoder						
			ChB+2						Z-axis encoder						
			ChB-2						Z-axis encoder						
			ChA+3						A-axis encoder						
			ChA-3						A-axis encoder						
			ChB+3						A-axis encoder						
			ChB-3						A-axis encoder						