AM&MC GOST (Galil Optical Screw Terminal) Interface for Galil 21X3 Pinout

	P3		P1		P2		P4
1	A+ Y	1	Input Sink / Source	1	AA+ X	1	A+ Z
2	A- Y	2	Input 1 / Latch X	2	AA- X	2	A- Z
3	B+ Y	3	Input 2 / Latch Y	3	AB+ X	3	B+ Z
4	B- Y	4	Input 3 / Latch Z	4	AB- X	4	B- Z
5	I+ Y	5	Input 4 / Latch W	5	5VDC+ OUT	5	I+ Z
6	I- Y	6	Input 5 1 / Amp Status 1 X	6	5V Common	6	I- Z
7	5V Common	7	Input 6 1 / Amp Status 1 Y	7	Input 5 2 / Amp Status 2 X	7	5V Common
8	Motor Command Y Common	8	Input 7 1 / Amp Status 1 Z	8	Input 6 2 / Amp Status 2 Y	8	Motor Command Z Common
9	Motor Command Y	9	Input 8 1 / Amp Status 1 W	9	Input 7 2 / Amp Status 2 Z	9	Motor Command Z
10	Amp Enable 2 Y	10	Reset	10	Input 8 2 / Amp Status 2 W	10	Amp Enable 2 Z
11	Amp Enable 1 Y	11	Home X	11	A+ X	11	Amp Enable 1 Z
12	PWM Y / Step Y	12	Forward Limit X	12	A- X	12	PWM Z / Step Z
13	Sign Y / Dir Y	13	Reverse Limit X	13	B+ X	13	Sign Z / Dir Z
14	Home Y	14	Abort	14	B- X	14	A+ W
15	Forward Limit Y	15	5VDC+ OUT	15	I+ X	15	A- W
16	Reverse Limit Y	16	Output 1	16	I- X	16	B+ W
17	Home Z	17	Output 2	17	Motor Command X Common	17	B- W
18	Forward Limit Z	18	Output 3	18	Motor Command X	18	I+ W
19	Reverse Limit Z	19	Output 4	19	PWM X / Step X	19	I- W
20	Home W	20	Output 5	20	Sign X / Dir X	20	5V Common
21	Forward Limit W	21	Output 6	21	Amp Enable 1 X	21	Motor Command W Common
22	Reverse Limit W	22	Output 7	22	Amp Enable 2 X	22	Motor Command W
23	PWM W / Step W	23	Output 8	23	Error Output	23	Amp Enable 2 W
24	Sign W / Dir W	24	Output Sink / Source	24	Enc Compare Output	24	Amp Enable 1 W

	P5		P6
1	AA+ Y	1	24VDC Common IN
2	AA- Y	2	+24VDC IN
3	AB+ Y		
4	AB- Y		
5	5VDC+ OUT		
6	5V Common		

Black = Direct Connection to Galil Board

Blue = Optically Isolated 5V to 48V Output

Green = Optically Isolated 5V to 48V Output

Red = Optically Isolated 24V Input

Orange = Optically Isolated, Jumper Selectable 24V or 5V Input - Jumper OFF = 24V Input, Jumper ON = 5V Input