7I76 STEP/DIR PLUS I/O DAUGHTER CARD

TB-2

Pin	Signal	Reference	Axis
24	+ 5VP	+5v Reference	A-Axis
23	DIR 3 +	DIR	
22	DIR 3 -	DIR	
21	STEP 3 +	STEP	
20	STEP 3 -	STEP	
19	GND	Ground	
18	+ 5VP	+5v Reference	Z-Axis
17	DIR 2 +	DIR	
16	DIR 2 -	DIR	
15	STEP 2 +	STEP	
14	STEP 2 -	STEP	
13	GND	Ground	
12	+ 5VP	+5v Reference	Y-Axis
11	DIR 1 +	DIR	
10	DIR 1 -	DIR	
9	STEP 1 +	STEP	
8	STEP 1 -	STEP	
7	GND	Ground	
6	+ 5VP	+5v Reference	X-AXIS
5	DIR 0 +	DIR	
4	DIR 0 -	DIR	
3	STEP 0 +	STEP	
2	STEP 0 -	STEP	
1	GND	Ground	
TB-2			

TB-3

Pin	Signal	Reference	Group
24	GND	Supply Ground	SUPPLY
23	GND	Supply Ground	
22	+5vdc	+5vdc Supply	
21	+5vdc	+5vdc Supply	
20	+ 5VP	+5v Reference	RS-422
19	RS-422 TX -	TX	
18	RS-422 TX +	TX	
17	RS-422 RX -	RX	
16	RS-422 RX +	RX	
15	GND	Ground	
14	IDX -	IDX	ENCODERS
13	IDX +	IDX	
12	+ 5VP	+5v Reference	
11	ENC B +	Encoder B	
10	ENC B -	Encoder B	
9	GND	Ground	
8	ENC A +	Encoder A	
7	ENC A -	Encoder A	
6	+ 5VP	+5v Reference	B-AXIS
5	DIR 4 +	DIR	
4	DIR 4 -	DIR	
3	STEP 4 +	STEP	
2	STEP 4 -	STEP	
1	GND	Ground	
TB-3			

TB-1

Pin	Signal	Description
8	GND	COMMON VIN / VFIELD
7	N / C	UNUSED
6	N / C	UNUSED
5	VIN	LOGIC POWER 8 - 32V
4	VFIELD	
3	VFIELD	Field Power Input 8 to 32 vdc Input
2	VFIELD	
1	VFIELD	
TB-1		

TB-4

Pin	Signal	Value	Group
8	Spindle DIR +	TBD	SPINDLE
7	Spindle DIR -	TBD	
6	Spindle ENA +	TBD	
5	Spindle ENA -	TBD	
4	N / C	UNUSED	
3	Spindle +	V-HI	
2	Spindle Out	WIPER	
1	Spindle -	V-LOW	
TB-4			

TB-5

Pin	Signal	Group
24	OUTPUT 1	OUTPUTS
23	OUTPUT 2	
22	OUTPUT 3	
21	OUTPUT 4	
20	OUTPUT 5	
19	OUTPUT 6	
18	OUTPUT 7	
17	OUTPUT 8	
16	INPUT 31	INPUTS
15	INPUT 30	
14	INPUT 29	
13	INPUT 28	
12	INPUT 27	
11	INPUT 26	
10	INPUT 25	
9	INPUT 24	
8	INPUT 23	
7	INPUT 22	
6	INPUT 21	
5	INPUT 20	
4	INPUT 19	
3	INPUT 18	
2	INPUT 17	
1	INPUT 16	
TB-5		

TB-6

Pin	Signal	Group
24	OUTPUT 7	OUTPUTS
23	OUTPUT 6	
22	OUTPUT 5	
21	OUTPUT 4	
20	OUTPUT 3	
19	OUTPUT 2	
18	OUTPUT 1	
17	OUTPUT 0	
16	INPUT 15	INPUTS
15	INPUT 14	
14	INPUT 13	
13	INPUT 12	
12	INPUT 11	
11	INPUT 10	
10	INPUT 9	
9	INPUT 8	
8	INPUT 7	
7	INPUT 6	
6	INPUT 5	
5	INPUT 4	
4	INPUT 3	
3	INPUT 2	
2	INPUT 1	
1	INPUT 0	
TB-6		

Version 1