

Pin-Outs

DIDO Model Connector			
Pin	Signal	Pin	Signal
1	+24V IN	20	24V GND
2	DIO9	21	24V GND
3	DIO8	22	+24V IN
4	24V GND	23	+24V IN
5	+24V IN	24	
6	DIO7	25	24V GND
7	DIO6	26	+24V IN
8	24V GND	27	DIO15
9	+24V IN	28	DIO14
10	DIO5	29	24V GND
11	DIO4	30	+24V IN
12	24V GND	31	DIO13
13	+24V IN	32	DIO12
14	DIO3	33	24V GND
15	DIO2	34	+24V IN
16	24V GND	35	DIO11
17	+24V IN	36	DIO10
18	DIO1	37	24V GND
19	DIO0		

Combo Model Connector			
Pin	Signal	Pin	Signal
1	24V GND	20	A GND
2	24V GND	21	A GND
3	24V GND	22	AO0
4	24V GND	23	AO1
5	24V GND	24	AO2
6	DIO7	25	AO3
7	DIO6	26	AI0
8	DIO5	27	AI1
9	DIO4	28	AI2
10	DIO3	29	AI3
11	DIO2	30	AI4
12	DIO1	31	AI5
13	DIO0	32	AI6
14	+24V IN	33	AI7
15	+24V IN	34	+15V REF
16	+24V IN	35	+15V REF
17	+24V IN	36	-15V REF
18	+24V IN	37	-15V REF
19	+24V IN		

Ethernet Combo Connector			
Pin	Signal	Pin	Signal
1	A GND	20	A GND
2	AO0	21	AO1
3	AO2	22	AO3
4	-15V REF	23	-15V REF
5	AI0	24	AI1
6	AI2	25	AI3
7	AI4	26	AI5
8	AI6	27	AI7
9	+15V REF	28	+15V REF
10	24V GND	29	24V GND
11	24V GND	30	24V GND
12	24V GND	31	DIO7
13	DIO6	32	DIO5
14	DIO4	33	DIO3
15	DIO2	34	DIO1
16	DIO0	35	+24V IN
17	+24V IN	36	+24V IN
18	+24V IN	37	+24V IN
19	+24V IN		

EtherCAT Model I/O Connector – DSUB 50 Female					
Pin	Signal	Pin	Signal	Pin	Signal
1	+15V_Ref(Out)	18	An Out#4	34	-15V_Ref(Out)
2	An Out#3	19	An Out#2	35	AGND
3	An Out#1	20	An In#8	36	AGND
4	An In#7	21	An In#6	37	AGND
5	An In#5	22	An In#4	38	AGND
6	An In#3	23	An In#2	39	AGND
7	An In#1	24	24V_Out2	40	AGND
8	24V_Out2	25	24V_Out1	41	24V_DGND
9	24V_Out1	26	DIO#16	42	24V_DGND
10	DIO#15	27	DIO#14	43	24V_DGND
11	DIO#13	28	DIO#12	44	24V_DGND
12	DIO#11	29	DIO#10	45	24V_DGND
13	DIO#9	30	DIO#8	46	24V_DGND
14	DIO#7	31	DIO#6	47	24V_DGND
15	DIO#5	32	DIO#4	48	24V_DGND
16	DIO#3	33	DIO#2	49	24V_DGND
17	DIO#1			50	24V_DGND

AGND is not tied to 24V_GND.

The 24V_Out is not directly connected to +24V Input. Each 24V_Out1 & the 24V_Out2 has an independent 0.5A