

Corner Station Controls Chassis 5 Left Rail								
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
Power								
24V	violet	L	OMRON	DC_1	24V	P	TBLOCK	
0V	gray	L	OMRON	DC_1	0V	P	TBLOCK	
24V	violet	L	EK1101	0	24V	P	TBLOCK	
0V	gray	L	EK1101	0	0V	P	TBLOCK	
5V_1	red	L	EK1101	0	+	P	DC_1	+V
5VRET_1	black	L	EK1101	0	-	P	DC_1	-V
5V_2	red	L	EL9190	5	+	P	DC_2	+V
5VRET_2	black	L	EL9190	5	-	P	DC_2	-V
24V	violet	L	EL9410	12	24V	P	TBLOCK	
0V	gray	L	EL9410	12	0V	P	TBLOCK	
5V_3	red	L	EL9410	12	+	P	DC_3	+V
5VRET_3	black	L	EL9410	12	-	P	DC_3	-V
24V	violet	L	OMRON	DC_2	24V	P	TBLOCK	
0V	gray	L	OMRON	DC_2	0V	P	TBLOCK	
24V	violet	L	OMRON	DC_3	24V	P	TBLOCK	
0V	gray	L	OMRON	DC_3	0V	P	TBLOCK	
24V	violet	L	TRACO	VCC	24V	P	TBLOCK	
0V	gray	L	TRACO	VCC	0V	P	TBLOCK	
VCC (+5V) (*)	red	L	TRACO	VCC	+	P	11	VCC
GND (*)	black	L	TRACO	VCC	-	P	VEE	+
24V	violet	L	TRACO	VEE	24V	P	TBLOCK	
0V	gray	L	TRACO	VEE	0V	P	TBLOCK	
GND (*)	black	L	TRACO	VEE	+	P	11	GND
VEE (-5V) (*)	white	L	TRACO	VEE	-	P	11	VEE
Coupler								
Input	CAT5	L	EK1101	0	X1	Comm.	IN	
Output	CAT5	L	EK1101	0	X2	Comm.	M/O	X1
Auxiliary ISCT6								
5VRET_1	black	L	EL1124	1	-	P	8	19
Aux BI 1	brown	L	EL1124	1	I1	BI	8	23
Aux BI 2	brown	L	EL1124	1	I2	BI	8	4
Aux BI 3	brown	L	EL1124	1	I3	BI	8	22
Aux BI 4	brown	L	EL1124	1	I4	BI	8	3
Aux BO 1	orange	L	EL2124	2	O1	BO	8	21
Aux BO 2	orange	L	EL2124	2	O2	BO	8	2
Aux BO 2	orange	L	EL2124	2	O3	BO	8	20
Aux BO 2	orange	L	EL2124	2	O4	BO	8	1
Aux AI 1 +	green	L	EL3104	3	+I1	AI	8	12
Aux AI 1 -	white	L	EL3104	3	-I1	AI	8	31
Aux AI 2 +	green	L	EL3104	3	+I2	AI	8	11
Aux AI 2 -	white	L	EL3104	3	-I2	AI	8	30
Aux AI 3 +	green	L	EL3104	3	+I3	AI	8	10
Aux AI 3 -	white	L	EL3104	3	-I3	AI	8	29
Aux AI 4 +	green	L	EL3104	3	+I4	AI	8	9
Aux AI 4 -	white	L	EL3104	3	-I4	AI	8	28
Aux AO 1 +	blue	L	EL4134	4	O1	AO	8	8
Aux AO 1 -	yellow	L	EL4134	4	COM	AO	8	27
Aux AO 2 +	blue	L	EL4134	4	O2	AO	8	7
Aux AO 2 -	yellow	L	EL4134	4	COM	AO	8	26
Aux AO 3 +	blue	L	EL4134	4	O3	AO	8	6
Aux AO 3 -	yellow	L	EL4134	4	COM	AO	8	25
Aux AO 4 +	blue	L	EL4134	4	O4	AO	8	5
Aux AO 4 -	yellow	L	EL4134	4	COM	AO	8	24
DC PDs ISCT1								
5VRET_2	black	L	EL2124	6	-	P	9	19
DC PD1 GAIN0	orange	L	EL2124	6	O1	BO	9	11
DC PD1 GAIN1	orange	L	EL2124	6	O2	BO	9	30
DC PD2 GAIN0	orange	L	EL2124	6	O3	BO	9	12
DC PD2 GAIN1	orange	L	EL2124	6	O4	BO	9	31
DC PD3 GAIN0	orange	L	EL2124	7	O1	BO	9	7
DC PD3 GAIN1	orange	L	EL2124	7	O2	BO	9	26

DC PD4 GAIN0	orange	L	EL2124	7	O3	BO	9	8
DC PD4 GAIN1	orange	L	EL2124	7	O4	BO	9	27
DC PD5 GAIN0	orange	L	EL2124	8	O1	BO	9	3
DC PD5 GAIN1	orange	L	EL2124	8	O2	BO	9	22
DC PD6 GAIN0	orange	L	EL2124	8	O3	BO	9	4
DC PD6 GAIN1	orange	L	EL2124	8	O4	BO	9	23
DC PD1 +	green	L	EL3104	9	+I1	AI	9	9
DC PD1 -	white	L	EL3104	9	-I1	AI	9	28
DC PD2 +	green	L	EL3104	9	+I2	AI	9	10
DC PD2 -	white	L	EL3104	9	-I2	AI	9	29
DC PD3 +	green	L	EL3104	9	+I3	AI	9	5
DC PD3 -	white	L	EL3104	9	-I3	AI	9	24
DC PD4 +	green	L	EL3104	9	+I4	AI	9	6
DC PD4 -	white	L	EL3104	9	-I4	AI	9	25
DC PD5 +	green	L	EL3104	10	+I1	AI	9	1
DC PD5 -	white	L	EL3104	10	-I1	AI	9	20
DC PD6 +	green	L	EL3104	10	+I2	AI	9	2
DC PD6 -	white	L	EL3104	10	-I2	AI	9	21
Extra 1 +	green	L	EL3104	10	+I3	AI	9	18
Extra 1 -	white	L	EL3104	10	-I3	AI	9	37
Extra 2 +	green	L	EL3104	10	+I4	AI	9	17
Extra 2 -	white	L	EL3104	10	-I4	AI	9	36
PD Monitor 1 +	green	L	EL3104	11	+I1	AI	9	16
PD Monitor 1 -	white	L	EL3104	11	-I1	AI	9	35
PD Monitor 2 +	green	L	EL3104	11	+I2	AI	9	15
PD Monitor 2 -	white	L	EL3104	11	-I2	AI	9	34
PD Monitor 3 +	green	L	EL3104	11	+I3	AI	9	14
PD Monitor 3 -	white	L	EL3104	11	-I3	AI	9	33
PD Monitor 4 +	green	L	EL3104	11	+I4	AI	9	13
PD Monitor 4 -	white	L	EL3104	11	-I4	AI	9	32
Auxiliary ISCT1								
SVRET_3	black	L	EL1124	13	-	P	10	19
Aux BI 1	brown	L	EL1124	13	I1	BI	10	23
Aux BI 2	brown	L	EL1124	13	I2	BI	10	4
Aux BI 3	brown	L	EL1124	13	I3	BI	10	22
Aux BI 4	brown	L	EL1124	13	I4	BI	10	3
Aux BO 1	orange	L	EL2124	14	O1	BO	10	21
Aux BO 2	orange	L	EL2124	14	O2	BO	10	2
Aux BO 2	orange	L	EL2124	14	O3	BO	10	20
Aux BO 2	orange	L	EL2124	14	O4	BO	10	1
Aux AI 1 +	green	L	EL3104	15	+I1	AI	10	12
Aux AI 1 -	white	L	EL3104	15	-I1	AI	10	31
Aux AI 2 +	green	L	EL3104	15	+I2	AI	10	11
Aux AI 2 -	white	L	EL3104	15	-I2	AI	10	30
Aux AI 3 +	green	L	EL3104	15	+I3	AI	10	10
Aux AI 3 -	white	L	EL3104	15	-I3	AI	10	29
Aux AI 4 +	green	L	EL3104	15	+I4	AI	10	9
Aux AI 4 -	white	L	EL3104	15	-I4	AI	10	28
Aux AO 1 +	blue	L	EL4134	16	O1	AO	10	8
Aux AO 1 -	yellow	L	EL4134	16	COM	AO	10	27
Aux AO 2 +	blue	L	EL4134	16	O2	AO	10	7
Aux AO 2 -	yellow	L	EL4134	16	COM	AO	10	26
Aux AO 3 +	blue	L	EL4134	16	O3	AO	10	6
Aux AO 3 -	yellow	L	EL4134	16	COM	AO	10	25
Aux AO 4 +	blue	L	EL4134	16	O4	AO	10	5
Aux AO 4 -	yellow	L	EL4134	16	COM	AO	10	24
SHG Oven								
Temperature Supply 1 +	red	L	EL3692	17	+R1	AI	11	1
Temperature Supply 1 -	black	L	EL3692	17	-R1	AI	11	9
Temperature Readback 1 +	green	L	EL3692	17	+R1	AI	11	2
Temperature Readback 1 -	white	L	EL3692	17	-R1	AI	11	10
		L	EL3692	17	+R2	AI		
		L	EL3692	17	-R2	AI		
		L	EL3692	17	+R2	AI		
		L	EL3692	17	-R2	AI		

GND	black	L	EL3102	18	COM	P	11	8
Current monitor 1 +	green	L	EL3102	18	+I1	AI	11	6
Current monitor 1 -	white	L	EL3102	18	-I1	AI	11	14
Remote voltage monitor 1 +	green	L	EL3102	18	+I2	AI	11	7
Remote voltage monitor 1 -	white	L	EL3102	18	-I2	AI	11	15
Set current 1 +	blue	L	EL4132	19	O1	AO	11	3
Set current 2 -	yellow	L	EL4132	19	COM	AO	11	11
	blue	L	EL4132	19	O2	AO		
	yellow	L	EL4132	19	COM	AO		

* use AWG16 hookup wire

Corner Station Controls Chassis 5 Middle Rail								
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
Power								
24V	violet	M	OMRON	DC_4	24V	P	TBLOCK	
0V	gray	M	OMRON	DC_4	0V	P	TBLOCK	
24V	violet	M	EK1100	0	24V	P	TBLOCK	
0V	gray	M	EK1100	0	0V	P	TBLOCK	
5V_4	red	M	EK1100	0	+	P	DC_4	+V
5VRET_4	black	M	EK1100	0	-	P	DC_4	-V
5V_5	red	M	EL9190	8	+	P	DC_5	+V
5VRET_5	black	M	EL9190	8	-	P	DC_5	-V
24V	violet	M	OMRON	DC_5	24V	P	TBLOCK	
0V	gray	M	OMRON	DC_5	0V	P	TBLOCK	
Coupler								
Output	CAT5	M	EK1100	0	X2	Comm.	R/O	X1
ALS Fiber Distribution								
Monitor 1 +	green	M	EL3104	1	+I1	AI	4	1
Monitor 1 -	white	M	EL3104	1	-I1	AI	4	14
Monitor 2 +	green	M	EL3104	1	+I2	AI	4	2
Monitor 2 -	white	M	EL3104	1	-I2	AI	4	15
Monitor 3 +	green	M	EL3104	1	+I3	AI	4	3
Monitor 3 -	white	M	EL3104	1	-I3	AI	4	16
OK +	green	M	EL3104	1	+I4	AI	4	7
OK -	white	M	EL3104	1	-I4	AI	4	20
Low Noise VCO								
Monitor 1 +	green	M	EL3104	2	+I1	AI	5	1
Monitor 1 -	white	M	EL3104	2	-I1	AI	5	14
Monitor 2 +	green	M	EL3104	2	+I2	AI	5	2
Monitor 2 -	white	M	EL3104	2	-I2	AI	5	15
Monitor 3 +	green	M	EL3104	2	+I3	AI	5	3
Monitor 3 -	white	M	EL3104	2	-I3	AI	5	16
Temp 1 +	green	M	EL3104	2	+I4	AI	5	4
Temp 1 -	white	M	EL3104	2	-I4	AI	5	17
Temp 2 +	green	M	EL3104	3	+I1	AI	5	5
Temp 2 -	white	M	EL3104	3	-I1	AI	5	18
Temp 3 +	green	M	EL3104	3	+I2	AI	5	6
Temp 3 -	white	M	EL3104	3	-I2	AI	5	19
Tune monitor +	green	M	EL3104	3	+I3	AI	5	10
Tune monitor -	white	M	EL3104	3	-I3	AI	5	23
Spare +	green	M	EL3104	3	+I4	AI	5	12
Spare -	white	M	EL3104	3	-I4	AI	5	25
Tune adjust +	blue	M	EL4132	4	O1	AO	5	11
Tune adjust -	yellow	M	EL4132	4	COM	AO	5	24
	blue	M	EL4132	4	O2	AO		
	yellow	M	EL4132	4	COM	AO		
5VRET_4	black	M	EL1124	5	-	P	5	20
Excitation switch	brown	M	EL1124	5	I1	BI	5	9
OK	brown	M	EL1124	5	I2	BI	5	7
	brown	M	EL1124	5	I3	BI		
	brown	M	EL1124	5	I4	BI		
Excitation enable	orange	M	EL2124	6	O1	BO	5	8
	orange	M	EL2124	6	O2	BO		
	orange	M	EL2124	6	O3	BO		
	orange	M	EL2124	6	O4	BO		
Temperature								
Temperature Supply 1 +	red	M	EL3202	7	+R1	AI	6	1-2
Temperature Supply 1 -	black	M	EL3202	7	-R1	AI	6	1-4
Temperature Readback 1 +	green	M	EL3202	7	+R1	AI	6	1-1
Temperature Readback 1 -	white	M	EL3202	7	-R1	AI	6	1-3
Temperature Supply 2 +	red	M	EL3202	7	+R2	AI	6	2-2
Temperature Supply 2 -	black	M	EL3202	7	-R2	AI	6	2-4
Temperature Readback 2 +	green	M	EL3202	7	+R2	AI	6	2-1
Temperature Readback 2 -	white	M	EL3202	7	-R2	AI	6	2-3
DC PDs ISCT6								

5VRET_5	black	M	EL2124	9	-	P	7	19
DC PD1 GAIN0	orange	M	EL2124	9	O1	BO	7	7
DC PD1 GAIN1	orange	M	EL2124	9	O2	BO	7	26
DC PD2 GAIN0	orange	M	EL2124	9	O3	BO	7	8
DC PD2 GAIN1	orange	M	EL2124	9	O4	BO	7	27
DC PD3 GAIN0	orange	M	EL2124	10	O1	BO	7	3
DC PD3 GAIN1	orange	M	EL2124	10	O2	BO	7	22
DC PD4 GAIN0	orange	M	EL2124	10	O3	BO	7	4
DC PD4 GAIN1	orange	M	EL2124	10	O4	BO	7	23
DC PD1 +	green	M	EL3104	11	+I1	AI	7	5
DC PD1 -	white	M	EL3104	11	-I1	AI	7	24
DC PD2 +	green	M	EL3104	11	+I2	AI	7	6
DC PD2 -	white	M	EL3104	11	-I2	AI	7	25
DC PD3 +	green	M	EL3104	11	+I3	AI	7	1
DC PD3 -	white	M	EL3104	11	-I3	AI	7	20
DC PD4 +	green	M	EL3104	11	+I4	AI	7	2
DC PD4 -	white	M	EL3104	11	-I4	AI	7	21
PD Monitor 1 +	green	M	EL3104	12	+I1	AI	7	12
PD Monitor 1 -	white	M	EL3104	12	-I1	AI	7	31
PD Monitor 2 +	green	M	EL3104	12	+I2	AI	7	11
PD Monitor 2 -	white	M	EL3104	12	-I2	AI	7	30
PD Monitor 3 +	green	M	EL3104	12	+I3	AI	7	10
PD Monitor 3 -	white	M	EL3104	12	-I3	AI	7	29
PD Monitor 4 +	green	M	EL3104	12	+I4	AI	7	9
PD Monitor 4 -	white	M	EL3104	12	-I4	AI	7	28

Corner Station Controls Chassis 5 Right Rail								
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
Power								
24V	violet	R	OMRON	DC_6	24V	P	TBLOCK	
0V	gray	R	OMRON	DC_6	0V	P	TBLOCK	
24V	violet	R	EK1100	0	24V	P	TBLOCK	
0V	gray	R	EK1100	0	0V	P	TBLOCK	
24V	violet	R	EK1100	0	+	P	TBLOCK	
0V	gray	R	EK1100	0	-	P	TBLOCK	
24V	violet	R	EL9410	11	24V	P	TBLOCK	
0V	gray	R	EL9410	11	0V	P	TBLOCK	
5V_6	red	R	EL9410	11	+	P	DC_6	+V
5VRET_6	black	R	EL9410	11	-	P	DC_6	-V
24V	violet	R	EL9410	20	24V	P	TBLOCK	
0V	gray	R	EL9410	20	0V	P	TBLOCK	
5V_6	red	R	EL9410	20	+	P	DC_6	+V
5VRET_6	black	R	EL9410	20	-	P	DC_6	-V
Coupler								
Output	CAT5	R	EK1100	0	X2	Comm.	OUT	
Beam Diverters HAM1								
24V(*)	violet	R	EL7332	1	+	P	TBLOCK	
0V(*)	gray	R	EL7332	1	-	P	TBLOCK	
Motor A +(*)	violet	R	EL7332	1	A1	P	E	1
Motor A -(*)	gray	R	EL7332	1	A2	P	E	6
Motor B +(*)	violet	R	EL7332	1	B1	P	F	1
Motor B -(*)	gray	R	EL7332	1	B2	P	F	6
		R	EL7332	1	I1	BI		
		R	EL7332	1	I2	BI		
End switch A1	brown	R	EL1094	2	I1	BI	E	2
0V	gray	R	EL1094	2	-	P	E	7
End switch A2	brown	R	EL1094	2	I2	BI	E	3
0V	gray	R	EL1094	2	-	P	E	8
End switch A1	brown	R	EL1094	2	I3	BI	F	2
0V	gray	R	EL1094	2	-	P	F	7
End switch A2	brown	R	EL1094	2	I4	BI	F	3
0V	gray	R	EL1094	2	-	P	F	8
Beam Diverters HAM6								
24V(*)	violet	R	EL7332	3	+	P	TBLOCK	
0V(*)	gray	R	EL7332	3	-	P	TBLOCK	
Motor A +(*)	violet	R	EL7332	3	A1	P	G	1
Motor A -(*)	gray	R	EL7332	3	A2	P	G	6
Motor B +(*)	violet	R	EL7332	3	B1	P	H	1
Motor B -(*)	gray	R	EL7332	3	B2	P	H	6
		R	EL7332	3	I1	BI		
		R	EL7332	3	I2	BI		
End switch A1	brown	R	EL1094	4	I1	BI	G	2
0V	gray	R	EL1094	4	-	P	G	7
End switch A2	brown	R	EL1094	4	I2	BI	G	3
0V	gray	R	EL1094	4	-	P	G	8
End switch A1	brown	R	EL1094	4	I3	BI	H	2
0V	gray	R	EL1094	4	-	P	H	7
End switch A2	brown	R	EL1094	4	I4	BI	H	3
0V	gray	R	EL1094	4	-	P	H	8
Shutter Control								
Shutter A1 Monitor	brown	R	EL1094	5	I1	BI	A	5
0V	gray	R	EL1094	5	-	P	A	8
Shutter A2 Monitor	brown	R	EL1094	5	I2	BI	A	13
		R	EL1094	5	-	P		
Shutter B1 Monitor	brown	R	EL1094	5	I3	BI	B	5
0V	gray	R	EL1094	5	-	P	B	8
Shutter B2 Monitor	brown	R	EL1094	5	I4	BI	B	13
		R	EL1094	5	-	P		
Shutter A1 Close	orange	R	EL2008	6	O1	BO	A	6
Shutter A2 Close	orange	R	EL2008	6	O2	BO	A	14

Shutter A1 Open	orange	R	EL2008	6	O3	BO	A	7
Shutter A2 Open	orange	R	EL2008	6	O4	BO	A	15
Shutter B1 Close	orange	R	EL2008	6	O5	BO	B	6
Shutter B2 Close	orange	R	EL2008	6	O6	BO	B	14
Shutter B1 Open	orange	R	EL2008	6	O7	BO	B	7
Shutter B2 Open	orange	R	EL2008	6	O8	BO	B	15
Shutter C1 Monitor	brown	R	EL1094	7	I1	BI	C	5
0V	gray	R	EL1094	7	-	P	C	8
Shutter C2 Monitor	brown	R	EL1094	7	I2	BI	C	13
		R	EL1094	7	-	P		
Shutter D1 Monitor	brown	R	EL1094	7	I3	BI	D	5
0V	gray	R	EL1094	7	-	P	D	8
Shutter D2 Monitor	brown	R	EL1094	7	I4	BI	D	13
		R	EL1094	7	-	P		
Shutter C1 Close	orange	R	EL2008	8	O1	BO	C	6
Shutter C2 Close	orange	R	EL2008	8	O2	BO	C	14
Shutter C1 Open	orange	R	EL2008	8	O3	BO	C	7
Shutter C2 Open	orange	R	EL2008	8	O4	BO	C	15
Shutter D1 Close	orange	R	EL2008	8	O5	BO	D	6
Shutter D2 Close	orange	R	EL2008	8	O6	BO	D	14
Shutter D1 Open	orange	R	EL2008	8	O7	BO	D	7
Shutter D2 Open	orange	R	EL2008	8	O8	BO	D	15
Shutter A1 PD +	green	R	EL3104	9	+I1	AI	A	2
Shutter A1 PD -	white	R	EL3104	9	-I1	AI	A	10
Shutter A2 PD +	green	R	EL3104	9	+I2	AI	A	4
Shutter A2 PD -	white	R	EL3104	9	-I2	AI	A	12
Shutter C1 PD +	green	R	EL3104	9	+I3	AI	C	2
Shutter C1 PD -	white	R	EL3104	9	-I3	AI	C	10
Shutter C2 PD +	green	R	EL3104	9	+I4	AI	C	4
Shutter C2 PD -	white	R	EL3104	9	-I4	AI	C	12
Shutter A1 TH +	blue	R	EL4134	10	O1	AO	A	1
Shutter A1 TH -	yellow	R	EL4134	10	COM	AO	A	9
Shutter A2 TH +	blue	R	EL4134	10	O2	AO	A	3
Shutter A2 TH -	yellow	R	EL4134	10	COM	AO	A	11
Shutter C1 TH +	blue	R	EL4134	10	O3	AO	C	1
Shutter C1 TH -	yellow	R	EL4134	10	COM	AO	C	9
Shutter C2 TH +	blue	R	EL4134	10	O4	AO	C	3
Shutter C2 TH -	yellow	R	EL4134	10	COM	AO	C	11
CM Sum A								
Input 1 monitor +	green	R	EL3104	12	+I1	AI		2
Input 1 monitor -	white	R	EL3104	12	-I1	AI		20
Input 2 monitor +	green	R	EL3104	12	+I2	AI		2
Input 2 monitor -	white	R	EL3104	12	-I2	AI		21
Sum monitor +	green	R	EL3104	12	+I3	AI		3
Sum monitor -	white	R	EL3104	12	-I3	AI		22
		R	EL3104	12	+I4	AI		
		R	EL3104	12	-I4	AI		
Offset Adjust +	blue	R	EL4132	13	O1	AO		2
Offset Adjust -	yellow	R	EL4132	13	COM	AO		23
		R	EL4132	13	O2	AO		
		R	EL4132	13	COM	AO		
SVRET_6	black	R	EL1124	14	-	P		2
OK	brown	R	EL1124	14	I1	BI		2
		R	EL1124	14	I2	BI		
		R	EL1124	14	I3	BI		
		R	EL1124	14	I4	BI		
Input 1 polarity	orange	R	EL2124	15	O1	BO		2
Input 2 polarity	orange	R	EL2124	15	O2	BO		24
Input 1 enable	orange	R	EL2124	15	O3	BO		2
Input 2 enable	orange	R	EL2124	15	O4	BO		25
Gain slider input 1 bit 0	orange	R	EL2124	16	O1	BO		2
Gain slider input 1 bit 1	orange	R	EL2124	16	O2	BO		26
Gain slider input 1 bit 2	orange	R	EL2124	16	O3	BO		2
Gain slider input 1 bit 3	orange	R	EL2124	16	O4	BO		27
Gain slider input 1 bit 4	orange	R	EL2124	17	O1	BO		2

Gain slider input 1 bit 5	orange	R	EL2124	17	O2	BO	2	28
Gain slider input 2 bit 0	orange	R	EL2124	17	O3	BO	2	10
Gain slider input 2 bit 1	orange	R	EL2124	17	O4	BO	2	29
Gain slider input 2 bit 2	orange	R	EL2124	18	O1	BO	2	11
Gain slider input 2 bit 3	orange	R	EL2124	18	O2	BO	2	30
Gain slider input 2 bit 4	orange	R	EL2124	18	O3	BO	2	12
Gain slider input 2 bit 5	orange	R	EL2124	18	O4	BO	2	31
Output 1 switch	orange	R	EL2124	19	O1	BO	2	13
Boost enable	orange	R	EL2124	19	O2	BO	2	32
Filter enable	orange	R	EL2124	19	O3	BO	2	14
Option enable	orange	R	EL2124	19	O4	BO	2	33
CM Sum B								
Input 1 monitor +	green	R	EL3104	21	+I1	AI	3	1
Input 1 monitor -	white	R	EL3104	21	-I1	AI	3	20
Input 2 monitor +	green	R	EL3104	21	+I2	AI	3	2
Input 2 monitor -	white	R	EL3104	21	-I2	AI	3	21
Sum monitor +	green	R	EL3104	21	+I3	AI	3	3
Sum monitor -	white	R	EL3104	21	-I3	AI	3	22
		R	EL3104	21	+I4	AI		
		R	EL3104	21	-I4	AI		
Offset Adjust +	blue	R	EL4132	22	O1	AO	3	4
Offset Adjust -	yellow	R	EL4132	22	COM	AO	3	23
		R	EL4132	22	O2	AO		
		R	EL4132	22	COM	AO		
5VRET_6	black	R	EL1124	23	-	P	3	19
OK	brown	R	EL1124	23	I1	BI	3	37
		R	EL1124	23	I2	BI		
		R	EL1124	23	I3	BI		
		R	EL1124	23	I4	BI		
Input 1 polarity	orange	R	EL2124	24	O1	BO	3	5
Input 2 polarity	orange	R	EL2124	24	O2	BO	3	24
Input 1 enable	orange	R	EL2124	24	O3	BO	3	6
Input 2 enable	orange	R	EL2124	24	O4	BO	3	25
Gain slider input 1 bit 0	orange	R	EL2124	25	O1	BO	3	7
Gain slider input 1 bit 1	orange	R	EL2124	25	O2	BO	3	26
Gain slider input 1 bit 2	orange	R	EL2124	25	O3	BO	3	8
Gain slider input 1 bit 3	orange	R	EL2124	25	O4	BO	3	27
Gain slider input 1 bit 4	orange	R	EL2124	26	O1	BO	3	9
Gain slider input 1 bit 5	orange	R	EL2124	26	O2	BO	3	28
Gain slider input 2 bit 0	orange	R	EL2124	26	O3	BO	3	10
Gain slider input 2 bit 1	orange	R	EL2124	26	O4	BO	3	29
Gain slider input 2 bit 2	orange	R	EL2124	27	O1	BO	3	11
Gain slider input 2 bit 3	orange	R	EL2124	27	O2	BO	3	30
Gain slider input 2 bit 4	orange	R	EL2124	27	O3	BO	3	12
Gain slider input 2 bit 5	orange	R	EL2124	27	O4	BO	3	31
Output 1 switch	orange	R	EL2124	28	O1	BO	3	13
Boost enable	orange	R	EL2124	28	O2	BO	3	32
Filter enable	orange	R	EL2124	28	O3	BO	3	14
Option enable	orange	R	EL2124	28	O4	BO	3	33

* use AWG16 hookup wire