

Corner Station Controls Chassis 6 Left Rail								
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
<b>Power</b>								
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	15	24V	P	TBLOCK	
0V	gray	L	EL9410	15	0V	P	TBLOCK	
5V_3	red	L	EL9410	15	+	P	DC_3	+V
5VRET_3	black	L	EL9410	15	-	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	
<b>Coupler</b>								
Input	CAT5	L	EK1101	0	X1	Comm.	IN	
Output	CAT5	L	EK1101	0	X2	Comm.	M/O	X1
<b>RF Amp</b>								
Monitor 1 +	green	L	EL3104	1	+11	AI	9	12
Monitor 1 -	white	L	EL3104	1	-11	AI	9	31
Monitor 2 +	green	L	EL3104	1	+12	AI	9	11
Monitor 2 -	white	L	EL3104	1	-12	AI	9	30
Monitor 3 +	green	L	EL3104	1	+13	AI	9	10
Monitor 3 -	white	L	EL3104	1	-13	AI	9	29
Monitor 4 +	green	L	EL3104	1	+14	AI	9	9
Monitor 4 -	white	L	EL3104	1	-14	AI	9	28
Monitor 5 +	green	L	EL3104	2	+11	AI	9	8
Monitor 5 -	white	L	EL3104	2	-11	AI	9	27
Monitor 6 +	green	L	EL3104	2	+12	AI	9	7
Monitor 6 -	white	L	EL3104	2	-12	AI	9	26
Monitor 7 +	green	L	EL3104	2	+13	AI	9	6
Monitor 7 -	white	L	EL3104	2	-13	AI	9	25
Monitor 8 +	green	L	EL3104	2	+14	AI	9	5
Monitor 8 -	white	L	EL3104	2	-14	AI	9	24
5VRET_1	black	L	EL1124	3	-	P	9	19
OK1	brown	L	EL1124	3	I1	BI	9	37
OK2	brown	L	EL1124	3	I2	BI	9	17
OK3	brown	L	EL1124	3	I3	BI	9	34
OK4	brown	L	EL1124	3	I4	BI	9	14
OK5	brown	L	EL1124	4	I1	BI	9	18
OK6	brown	L	EL1124	4	I2	BI	9	35
OK7	brown	L	EL1124	4	I3	BI	9	15
OK8	brown	L	EL1124	4	I4	BI	9	32
<b>Low Noise VCO w/ PLL B</b>								
Monitor 1 +	green	L	EL3104	6	+11	AI	8	1
Monitor 1 -	white	L	EL3104	6	-11	AI	8	14
Monitor 2 +	green	L	EL3104	6	+12	AI	8	2
Monitor 2 -	white	L	EL3104	6	-12	AI	8	15
Monitor 3 +	green	L	EL3104	6	+13	AI	8	3
Monitor 3 -	white	L	EL3104	6	-13	AI	8	16
Temp 1 +	green	L	EL3104	6	+14	AI	8	4
Temp 1 -	white	L	EL3104	6	-14	AI	8	17
PLL error signal +	green	L	EL3104	7	+11	AI	7	1
PLL error signal -	white	L	EL3104	7	-11	AI	7	14
PLL control signal +	green	L	EL3104	7	+12	AI	7	2
PLL control signal -	white	L	EL3104	7	-12	AI	7	15
Tune monitor +	green	L	EL3104	7	+13	AI	8	10
Tune monitor -	white	L	EL3104	7	-13	AI	8	23
Spare +	green	L	EL3104	7	+14	AI	8	12
Spare -	white	L	EL3104	7	-14	AI	8	25
Tune adjust +	blue	L	EL4132	8	O1	AO	8	11

Tune adjust –	yellow	L	EL4132	8	COM	AO	8	24
PLL Offset adjust +	blue	L	EL4132	8	O2	AO	7	3
PLL Offset adjust –	yellow	L	EL4132	8	COM	AO	7	16
5VRET_2	black	L	EL1124	9	–	P	8	20
5VRET_2	black	L	EL1124	9	–	P	7	13
Excitation switch	brown	L	EL1124	9	I1	BI	8	9
OK	brown	L	EL1124	9	I2	BI	8	7
PLL OK	brown	L	EL1124	9	I3	BI	7	25
	brown	L	EL1124	9	I4	BI		
Excitation enable	orange	L	EL2124	10	O1	BO	8	8
	orange	L	EL2124	10	O2	BO		
PLL input enable	orange	L	EL2124	10	O3	BO	7	4
PLL sign	orange	L	EL2124	10	O4	BO	7	17
PLL first compensation	orange	L	EL2124	11	O1	BO	7	5
PLL second compensation	orange	L	EL2124	11	O2	BO	7	18
PLL gain slider input 2 bit 0	orange	L	EL2124	11	O3	BO	7	6
PLL gain slider input 2 bit 1	orange	L	EL2124	11	O4	BO	7	19
PLL gain slider input 2 bit 2	orange	L	EL2124	12	O1	BO	7	7
PLL gain slider input 2 bit 3	orange	L	EL2124	12	O2	BO	7	20
PLL gain slider input 2 bit 4	orange	L	EL2124	12	O3	BO	7	8
PLL gain slider input 2 bit 5	orange	L	EL2124	12	O4	BO	7	21
PLL option	orange	L	EL2124	13	O1	BO	7	9
PLL output enable	orange	L	EL2124	13	O2	BO	7	22
PLL integrator	orange	L	EL2124	13	O3	BO	7	10
PLL generic filter	orange	L	EL2124	13	O4	BO	7	23
PLL VCO filter	orange	L	EL2124	14	O1	BO	7	11
PLL Low pass	orange	L	EL2124	14	O2	BO	7	24
PLL Excitation enable	orange	L	EL2124	14	O3	BO	7	12
	orange	L	EL2124	14	O4	BO		
<b>Low Noise VCO w/ PLL A</b>								
Monitor 1 +	green	L	EL3104	16	+I1	AI	6	1
Monitor 1 –	white	L	EL3104	16	–I1	AI	6	14
Monitor 2 +	green	L	EL3104	16	+I2	AI	6	2
Monitor 2 –	white	L	EL3104	16	–I2	AI	6	15
Monitor 3 +	green	L	EL3104	16	+I3	AI	6	3
Monitor 3 –	white	L	EL3104	16	–I3	AI	6	16
Temp 1 +	green	L	EL3104	16	+I4	AI	6	4
Temp 1 –	white	L	EL3104	16	–I4	AI	6	17
PLL error signal +	green	L	EL3104	17	+I1	AI	5	1
PLL error signal –	white	L	EL3104	17	–I1	AI	5	14
PLL control signal +	green	L	EL3104	17	+I2	AI	5	2
PLL control signal –	white	L	EL3104	17	–I2	AI	5	15
Tune monitor +	green	L	EL3104	17	+I3	AI	6	10
Tune monitor –	white	L	EL3104	17	–I3	AI	6	23
Spare +	green	L	EL3104	17	+I4	AI	6	12
Spare –	white	L	EL3104	17	–I4	AI	6	25
Tune adjust +	blue	L	EL4132	18	O1	AO	6	11
Tune adjust –	yellow	L	EL4132	18	COM	AO	6	24
PLL Offset adjust +	blue	L	EL4132	18	O2	AO	5	3
PLL Offset adjust –	yellow	L	EL4132	18	COM	AO	5	16
5VRET_3	black	L	EL1124	19	–	P	6	20
5VRET_3	black	L	EL1124	19	–	P	5	13
Excitation switch	brown	L	EL1124	19	I1	BI	6	9
OK	brown	L	EL1124	19	I2	BI	6	7
PLL OK	brown	L	EL1124	19	I3	BI	5	25
	brown	L	EL1124	19	I4	BI		
Excitation enable	orange	L	EL2124	20	O1	BO	6	8
	orange	L	EL2124	20	O2	BO		
PLL input enable	orange	L	EL2124	20	O3	BO	5	4
PLL sign	orange	L	EL2124	20	O4	BO	5	17
PLL first compensation	orange	L	EL2124	21	O1	BO	5	5
PLL second compensation	orange	L	EL2124	21	O2	BO	5	18
PLL gain slider input 2 bit 0	orange	L	EL2124	21	O3	BO	5	6
PLL gain slider input 2 bit 1	orange	L	EL2124	21	O4	BO	5	19
PLL gain slider input 2 bit 2	orange	L	EL2124	22	O1	BO	5	7
PLL gain slider input 2 bit 3	orange	L	EL2124	22	O2	BO	5	20
PLL gain slider input 2 bit 4	orange	L	EL2124	22	O3	BO	5	8

PLL gain slider input 2 bit 5	orange	L	EL2124	22	O4	BO	5	21
PLL option	orange	L	EL2124	23	O1	BO	5	9
PLL output enable	orange	L	EL2124	23	O2	BO	5	22
PLL integrator	orange	L	EL2124	23	O3	BO	5	10
PLL generic filter	orange	L	EL2124	23	O4	BO	5	23
PLL VCO filter	orange	L	EL2124	24	O1	BO	5	11
PLL Low pass	orange	L	EL2124	24	O2	BO	5	24
PLL Excitation enable	orange	L	EL2124	24	O3	BO	5	12
	orange	L	EL2124	24	O4	BO		

Corner Station Controls Chassis 6 Middle Rail								
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
<b>Power</b>								
24V	violet	M	EK1100	0	24V	P	TBLOCK	
0V	gray	M	EK1100	0	0V	P	TBLOCK	
24V	violet	M	EK1100	0	+	P	TBLOCK	
0V	gray	M	EK1100	0	-	P	TBLOCK	
<b>Coupler</b>								
Output	CAT5	M	EK1100	0	X2	Comm.	OUT	
<b>Fast Shutter</b>								
High Voltage Ready	brown	M	EL1098	1	I1	BI	4	1
Pulse in Progress	brown	M	EL1098	1	I2	BI	4	2
Composite Fault	brown	M	EL1098	1	I3	BI	4	3
Upward Direction Pulse (Blocking Beam)	brown	M	EL1098	1	I4	BI	4	4
Downward Direction Pulse	brown	M	EL1098	1	I5	BI	4	5
Spare 1	brown	M	EL1098	1	I6	BI	4	6
Spare 2	brown	M	EL1098	1	I7	BI	4	7
Spare 3	brown	M	EL1098	1	I8	BI	4	8
Shutter Up Command (Block Beam)	orange	M	EL2004	2	O1	BO	4	9
0V	grey	M	EL2004	2	-	P	4	14
Shutter Down Command (Unblock Beam)	orange	M	EL2004	2	O2	BO	4	10
		M	EL2004	2	-	P	4	15
Spare 1	orange	M	EL2004	2	O3	BO	4	11
		M	EL2004	2	-	P	4	16
Spare 2	orange	M	EL2004	2	O4	BO	4	12
		M	EL2004	2	-	P	4	17

<b>Corner Station Controls Chassis 6</b>		<b>Right Rail</b>						
<b>Name</b>	<b>Color</b>	<b>Rail</b>	<b>Module</b>	<b>Number</b>	<b>Channel</b>	<b>Type</b>	<b>Adapter</b>	<b>Pin</b>