

Squeezer Controls Chassis 3								
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	4	+	P	DC_2	+V
5VRET_2	black	L	EL9190	4	-	P	DC_2	-V
24V	violet	L	EL9410	11	24V	P	TBLOCK	
0V	gray	L	EL9410	11	0V	P	TBLOCK	
5V_3	red	L	EL9410	11	+	P	DC_3	+V
5VRET_3	black	L	EL9410	11	-	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	
Coupler								
Input	CAT5	L	EK1101	0	X2	Comm.	IN	
Output	CAT5	L	EK1101	0	X2	Comm.	M/O	X1
Laser Diagnostics								
Laser diode 1 power monitor +	green	L	EL3104	1	+1	AI	11	1
Laser diode 1 power monitor -	white	L	EL3104	1	-1	AI	11	14
Laser diode 2 power monitor +	green	L	EL3104	1	+2	AI	11	2
Laser diode 2 power monitor -	white	L	EL3104	1	-2	AI	11	15
Laser crystal, TEC error signal +	green	L	EL3104	1	+3	AI	11	3
Laser crystal, TEC error signal -	white	L	EL3104	1	-3	AI	11	16
Doubling crystal, TEC error signal +	green	L	EL3104	1	+4	AI	11	4
Doubling crystal, TEC error signal -	white	L	EL3104	1	-4	AI	11	17
Laser diode 1, TEC error signal +	green	L	EL3104	2	+1	AI	11	6
Laser diode 1, TEC error signal -	white	L	EL3104	2	-1	AI	11	19
Laser diode 2, TEC error signal +	green	L	EL3104	2	+2	AI	11	7
Laser diode 2, TEC error signal -	white	L	EL3104	2	-2	AI	11	20
Noise eater monitor +	green	L	EL3104	2	+3	AI	11	12
Noise eater monitor -	white	L	EL3104	2	-3	AI	11	25
	green	L	EL3104	2	+4	AI	11	
	white	L	EL3104	2	-4	AI	11	
5V_1	red	L	EL1124	3	+	P	11	VCC
5VRET_1	black	L	EL1124	3	-	P	11	GND
Laser diode 1, temp guard	brown	L	EL1124	3	I1	BI	11	8
Laser diode 2, temp guard	brown	L	EL1124	3	I2	BI	11	9
Interlock	brown	L	EL1124	3	I3	BI	11	13
	brown	L	EL1124	3	I4	BI	11	
DC PDs SQZ (concentrator 8)								
5VRET_2	black	L	EL2124	5	-	P	10	19
DC PD1 GAIN0	orange	L	EL2124	5	O1	BO	10	15
DC PD1 GAIN1	orange	L	EL2124	5	O2	BO	10	34
DC PD2 GAIN0	orange	L	EL2124	5	O3	BO	10	16
DC PD2 GAIN1	orange	L	EL2124	5	O4	BO	10	35
DC PD3 GAIN0	orange	L	EL2124	6	O1	BO	10	11
DC PD3 GAIN1	orange	L	EL2124	6	O2	BO	10	30
DC PD4 GAIN0	orange	L	EL2124	6	O3	BO	10	12
DC PD4 GAIN1	orange	L	EL2124	6	O4	BO	10	31
DC PD5 GAIN0	orange	L	EL2124	7	O1	BO	10	7
DC PD5 GAIN1	orange	L	EL2124	7	O2	BO	10	26
DC PD6 GAIN0	orange	L	EL2124	7	O3	BO	10	8
DC PD6 GAIN1	orange	L	EL2124	7	O4	BO	10	27
DC PD7 GAIN0	orange	L	EL2124	8	O1	BO	10	3
DC PD7 GAIN1	orange	L	EL2124	8	O2	BO	10	22
DC PD8 GAIN0	orange	L	EL2124	8	O3	BO	10	4
DC PD8 GAIN1	orange	L	EL2124	8	O4	BO	10	23
DC PD1 +	green	L	EL3104	9	+1	AI	10	13
DC PD1 -	white	L	EL3104	9	-1	AI	10	32

DC PD2 +	green	L	EL3104	9	+12	AI	10	14
DC PD2 -	white	L	EL3104	9	-12	AI	10	33
DC PD3 +	green	L	EL3104	9	+13	AI	10	9
DC PD3 -	white	L	EL3104	9	-13	AI	10	28
DC PD4 +	green	L	EL3104	9	+14	AI	10	10
DC PD4 -	white	L	EL3104	9	-14	AI	10	29
DC PD5 +	green	L	EL3104	10	+11	AI	10	5
DC PD5 -	white	L	EL3104	10	-11	AI	10	24
DC PD6 +	green	L	EL3104	10	+12	AI	10	6
DC PD6 -	white	L	EL3104	10	-12	AI	10	25
DC PD7 +	green	L	EL3104	10	+13	AI	10	1
DC PD7 -	white	L	EL3104	10	-13	AI	10	20
DC PD8 +	green	L	EL3104	10	+14	AI	10	2
DC PD8 -	white	L	EL3104	10	-14	AI	10	21
DC PDs SQZ (concentrator 7)								
SVRET_2	black	L	EL2124	12	-	P	9	19
DC PD1 GAIN0	orange	L	EL2124	12	O1	BO	9	11
DC PD1 GAIN1	orange	L	EL2124	12	O2	BO	9	30
DC PD2 GAIN0	orange	L	EL2124	12	O3	BO	9	12
DC PD2 GAIN1	orange	L	EL2124	12	O4	BO	9	31
DC PD3 GAIN0	orange	L	EL2124	13	O1	BO	9	7
DC PD3 GAIN1	orange	L	EL2124	13	O2	BO	9	26
DC PD4 GAIN0	orange	L	EL2124	13	O3	BO	9	8
DC PD4 GAIN1	orange	L	EL2124	13	O4	BO	9	27
DC PD5 GAIN0	orange	L	EL2124	14	O1	BO	9	3
DC PD5 GAIN1	orange	L	EL2124	14	O2	BO	9	22
DC PD6 GAIN0	orange	L	EL2124	14	O3	BO	9	4
DC PD6 GAIN1	orange	L	EL2124	14	O4	BO	9	23
DC3_RET	black	L	EL3102	15	COM	P	DC3	-V
DC PD1 +	green	L	EL3102	15	+11	AI	9	9
DC PD1 -	white	L	EL3102	15	-11	AI	9	28
DC PD2 +	green	L	EL3102	15	+12	AI	9	10
DC PD2 -	white	L	EL3102	15	-12	AI	9	29
DC PD3 +	green	L	EL3104	16	+11	AI	9	5
DC PD3 -	white	L	EL3104	16	-11	AI	9	24
DC PD4 +	green	L	EL3104	16	+12	AI	9	6
DC PD4 -	white	L	EL3104	16	-12	AI	9	25
DC PD5 +	green	L	EL3104	16	+13	AI	9	1
DC PD5 -	white	L	EL3104	16	-13	AI	9	20
DC PD6 +	green	L	EL3104	16	+14	AI	9	2
DC PD6 -	white	L	EL3104	16	-14	AI	9	21
PD Monitor 1 +	green	L	EL3104	17	+11	AI	9	16
PD Monitor 1 -	white	L	EL3104	17	-11	AI	9	35
PD Monitor 2 +	green	L	EL3104	17	+12	AI	9	15
PD Monitor 2 -	white	L	EL3104	17	-12	AI	9	34
PD Monitor 3 +	green	L	EL3104	17	+13	AI	9	14
PD Monitor 3 -	white	L	EL3104	17	-13	AI	9	33
PD Monitor 4 +	green	L	EL3104	17	+14	AI	9	13
PD Monitor 4 -	white	L	EL3104	17	-14	AI	9	32
Temperature Sensors								
Temperature Supply 1 +	red	L	EL3692	18	+R1	AI	8	1-2
Temperature Supply 1 -	black	L	EL3692	18	-R1	AI	8	1-4
Temperature Readback 1 +	green	L	EL3692	18	+RL1	AI	8	1-1
Temperature Readback 1 -	white	L	EL3692	18	-RL1	AI	8	1-3
Temperature Supply 2 +	red	L	EL3692	18	+R2	AI	8	2-2
Temperature Supply 2 -	black	L	EL3692	18	-R2	AI	8	2-4
Temperature Readback 2 +	green	L	EL3692	18	+RL2	AI	8	2-1
Temperature Readback 2 -	white	L	EL3692	18	-RL2	AI	8	2-3
Temperature Supply 3 +	red	L	EL3692	19	+R1	AI	8	3-2
Temperature Supply 3 -	black	L	EL3692	19	-R1	AI	8	3-4
Temperature Readback 3 +	green	L	EL3692	19	+RL1	AI	8	3-1
Temperature Readback 3 -	white	L	EL3692	19	-RL1	AI	8	3-3
Temperature Supply 4 +	red	L	EL3692	19	+R2	AI	8	4-2
Temperature Supply 4 -	black	L	EL3692	19	-R2	AI	8	4-4
Temperature Readback 4 +	green	L	EL3692	19	+RL2	AI	8	4-1
Temperature Readback 4 -	white	L	EL3692	19	-RL2	AI	8	4-3

Squeezer Controls Chassis 3			Middle Rail					
Name	Color	RaiM	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
24V	violet	M	EL9410	7	24V	P	TBLOCK	
0V	gray	M	EL9410	7	0V	P	TBLOCK	
5V_5	red	M	EL9410	7	+	P	DC_5	+V
5VRET_5	black	M	EL9410	7	-	P	DC_5	-V
24V	violet	M	EL9410	16	24V	P	TBLOCK	
0V	gray	M	EL9410	16	0V	P	TBLOCK	
5V_6	red	M	EL9410	16	+	P	DC_6	+V
5VRET_6	black	M	EL9410	16	-	P	DC_6	-V
24V	violet	M	OMRON	DC_5	24V	P	TBLOCK	
0V	gray	M	OMRON	DC_5	0V	P	TBLOCK	
24V	violet	M	OMRON	DC_6	24V	P	TBLOCK	
0V	gray	M	OMRON	DC_6	0V	P	TBLOCK	
Coupler								
Output	CAT5	M	EK1100	0	X2	Comm.	R/O	X1
Motorized Flipper/TTL IO								
5VRET_4	black	M	EL1124	1	-	P	7	13
IN 1	brown	M	EL1124	1	I1	BI	7	14
IN 2	brown	M	EL1124	1	I2	BI	7	15
IN 3	brown	M	EL1124	1	I3	BI	7	16
IN 4	brown	M	EL1124	1	I4	BI	7	17
IN 5	brown	M	EL1124	2	I1	BI	7	18
IN 6	brown	M	EL1124	2	I2	BI	7	19
IN 7	brown	M	EL1124	2	I3	BI	7	20
IN 8	brown	M	EL1124	2	I4	BI	7	21
RELAY 1 MON	brown	M	EL1124	3	I1	BI	7	22
RELAY 2 MON	brown	M	EL1124	3	I2	BI	7	23
RELAY 3 MON	brown	M	EL1124	3	I3	BI	7	24
OK	brown	M	EL1124	3	I4	BI	7	25
OUT 1	orange	M	EL2124	4	O1	BO	7	1
OUT 2	orange	M	EL2124	4	O2	BO	7	2
OUT 3	orange	M	EL2124	4	O3	BO	7	3
OUT 4	orange	M	EL2124	4	O4	BO	7	4
OUT 5	orange	M	EL2124	5	O1	BO	7	5
OUT 6	orange	M	EL2124	5	O2	BO	7	6
OUT 7	orange	M	EL2124	5	O3	BO	7	7
OUT 8	orange	M	EL2124	5	O4	BO	7	8
RELAY 1 COIL	orange	M	EL2124	6	O1	BO	7	9
RELAY 2 COIL	orange	M	EL2124	6	O2	BO	7	10
RELAY 3 COIL	orange	M	EL2124	6	O3	BO	7	11
Extra	orange	M	EL2124	6	O4	BO	7	12
TTFSS								
5VRET_5	black	M	EL1124	8	-	P	6	19
Common excitation state	brown	M	EL1124	8	I1	BI	6	6
Fast excitation state	brown	M	EL1124	8	I2	BI	6	25
PFD sign state	brown	M	EL1124	8	I3	BI	6	7
Supply OK	brown	M	EL1124	8	I4	BI	6	26
Additive offset enable	orange	M	EL2124	9	O1	BO	6	1
Boost 1 enable	orange	M	EL2124	9	O2	BO	6	20
Commen excitation enable	orange	M	EL2124	9	O3	BO	6	2
Fast excitation enable	orange	M	EL2124	9	O4	BO	6	21
Ramp enable	orange	M	EL2124	10	O1	BO	6	3
EOM path enable	orange	M	EL2124	10	O2	BO	6	22
Phase-frequeuncy descriminator sign	orange	M	EL2124	10	O3	BO	6	4
Fast path sign	orange	M	EL2124	10	O4	BO	6	23
Boost 2 enable	orange	M	EL2124	11	O1	BO	6	5
Boost 3 enable	orange	M	EL2124	11	O2	BO	6	24

Spare 1	orange	M	EL2124	11	O3	BO	6	8
Spare 2	orange	M	EL2124	11	O4	BO	6	27
LO power +	green	M	EL3104	12	+1	AI	6	9
LO power –	white	M	EL3104	12	-1	AI	6	28
RF power +	green	M	EL3104	12	+2	AI	6	10
RF power –	white	M	EL3104	12	-2	AI	6	29
Mixer +	green	M	EL3104	12	+3	AI	6	11
Mixer –	white	M	EL3104	12	-3	AI	6	30
EOM RMS value +	green	M	EL3104	12	+4	AI	6	12
EOM RMS value –	white	M	EL3104	12	-4	AI	6	31
DC6_RET	black	M	EL3102	13	COM	P	DC6	V-
Fast output +	green	M	EL3102	13	+1	AI	6	13
Fast output –	white	M	EL3102	13	-1	AI	6	32
	green	M	EL3102	13	+2	AI		
	white	M	EL3102	13	-2	AI		
Common gain +	blue	M	EL4134	14	O1	AO	6	14
Common gain –	yellow	M	EL4134	14	COM	AO	6	33
Common offset +	blue	M	EL4134	14	O2	AO	6	15
Common offset –	yellow	M	EL4134	14	COM	AO	6	34
Fast gain +	blue	M	EL4134	14	O3	AO	6	16
Fast gain –	yellow	M	EL4134	14	COM	AO	6	35
Fast offset +	blue	M	EL4134	14	O4	AO	6	17
Fast offset –	yellow	M	EL4134	14	COM	AO	6	36
Slow +	blue	M	EL4132	15	O1	AO	6	18
Slow –	yellow	M	EL4132	15	COM	AO	6	37
	blue	M	EL4132	15	O2	AO		
	yellow	M	EL4132	15	COM	AO		
AM Modulated AOM Amplifier								
Monitor 1 +	green	M	EL3104	17	+1	AI	5	1
Monitor 1 –	white	M	EL3104	17	-1	AI	5	20
Temp 1 +	green	M	EL3104	17	+2	AI	5	2
Temp 1 –	white	M	EL3104	17	-2	AI	5	21
ErrorMon +	green	M	EL3104	17	+3	AI	5	3
ErrorMon –	white	M	EL3104	17	-3	AI	5	22
ControlMon +	green	M	EL3104	17	+4	AI	5	4
ControlMon –	white	M	EL3104	17	-4	AI	5	23
SetPoint +	blue	M	EL4134	18	O1	AO	5	5
SetPoint –	yellow	M	EL4134	18	COM	AO	5	24
DrivePoint +	blue	M	EL4134	18	O2	AO	5	6
DrivePoint –	yellow	M	EL4134	18	COM	AO	5	25
LowerLimit +	blue	M	EL4134	18	O3	AO	5	7
LowerLimit –	yellow	M	EL4134	18	COM	AO	5	26
UpperLimit +	blue	M	EL4134	18	O4	AO	5	8
UpperLimit –	yellow	M	EL4134	18	COM	AO	5	27
SVRET_6	black	M	EL1124	19	-	P	5	19
Limiter	brown	M	EL1124	19	I1	BI	5	17
ExcitationSwitch	brown	M	EL1124	19	I2	BI	5	36
RfSwitch	brown	M	EL1124	19	I3	BI	5	18
OK	brown	M	EL1124	19	I4	BI	5	37
Gain0	orange	M	EL2124	20	O1	BO	5	9
Gain1	orange	M	EL2124	20	O2	BO	5	28
Gain2	orange	M	EL2124	20	O3	BO	5	10
Gain3	orange	M	EL2124	20	O4	BO	5	29
Gain4	orange	M	EL2124	21	O1	BO	5	11
Gain5	orange	M	EL2124	21	O2	BO	5	30
Polarity	orange	M	EL2124	21	O3	BO	5	12
ExcitationEnable	orange	M	EL2124	21	O4	BO	5	31
Bypass	orange	M	EL2124	22	O1	BO	5	13
Boost2	orange	M	EL2124	22	O2	BO	5	32
Generic	orange	M	EL2124	22	O3	BO	5	14
Boost1	orange	M	EL2124	22	O4	BO	5	33
Option	orange	M	EL2124	23	O1	BO	5	15
OutputSwitch	orange	M	EL2124	23	O2	BO	5	34
DewhiteA	orange	M	EL2124	23	O3	BO	5	16
DewhiteB	orange	M	EL2124	23	O4	BO	5	35

Squeezer Controls Chassis 3		Right Rail						
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin
Power								
24V	violet	R	OMRON	DC_7	24V	P	TBLOCK	
0V	gray	R	OMRON	DC_7	0V	P	TBLOCK	
24V	violet	R	EK1100	0	24V	P	TBLOCK	
0V	gray	R	EK1100	0	0V	P	TBLOCK	
5V_4	red	R	EK1100	0	+	P	DC_7	+V
SVRET_4	black	R	EK1100	0	-	P	DC_7	-V
Coupler								
Output	CAT5	R	EK1100	0	X2	Comm.	OUT	
AM Modulated AOM Amplifier								
Monitor 1 +	green	R	EL3104	1	+1	AI	4	1
Monitor 1 -	white	R	EL3104	1	-1	AI	4	20
Temp 1 +	green	R	EL3104	1	+2	AI	4	2
Temp 1 -	white	R	EL3104	1	-2	AI	4	21
ErrorMon +	green	R	EL3104	1	+3	AI	4	3
ErrorMon -	white	R	EL3104	1	-3	AI	4	22
ControlMon +	green	R	EL3104	1	+4	AI	4	4
ControlMon -	white	R	EL3104	1	-4	AI	4	23
SetPoint +	blue	R	EL4134	2	O1	AO	4	5
SetPoint -	yellow	R	EL4134	2	COM	AO	4	24
DrivePoint +	blue	R	EL4134	2	O2	AO	4	6
DrivePoint -	yellow	R	EL4134	2	COM	AO	4	25
LowerLimit +	blue	R	EL4134	2	O3	AO	4	7
LowerLimit -	yellow	R	EL4134	2	COM	AO	4	26
UpperLimit +	blue	R	EL4134	2	O4	AO	4	8
UpperLimit -	yellow	R	EL4134	2	COM	AO	4	27
SVRET_7	black	R	EL1124	3	-	P	4	19
Limiter	brown	R	EL1124	3	I1	BI	4	17
ExcitationSwitch	brown	R	EL1124	3	I2	BI	4	36
RfSwitch	brown	R	EL1124	3	I3	BI	4	18
OK	brown	R	EL1124	3	I4	BI	4	37
Gain0	orange	R	EL2124	4	O1	BO	4	9
Gain1	orange	R	EL2124	4	O2	BO	4	28
Gain2	orange	R	EL2124	4	O3	BO	4	10
Gain3	orange	R	EL2124	4	O4	BO	4	29
Gain4	orange	R	EL2124	5	O1	BO	4	11
Gain5	orange	R	EL2124	5	O2	BO	4	30
Polarity	orange	R	EL2124	5	O3	BO	4	12
ExcitationEnable	orange	R	EL2124	5	O4	BO	4	31
Bypass	orange	R	EL2124	6	O1	BO	4	13
Boost2	orange	R	EL2124	6	O2	BO	4	32
Generic	orange	R	EL2124	6	O3	BO	4	14
Boost1	orange	R	EL2124	6	O4	BO	4	33
Option	orange	R	EL2124	7	O1	BO	4	15
OutputSwitch	orange	R	EL2124	7	O2	BO	4	34
DewwhiteA	orange	R	EL2124	7	O3	BO	4	16
DewwhiteB	orange	R	EL2124	7	O4	BO	4	35