

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
5V_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
5V_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	+I1	AI	11	1
Laser diode 1 power monitor -	white	L	EL3104	1	-I1	AI	11	14
Laser diode 2 power monitor +	green	L	EL3104	1	+I2	AI	11	2
Laser diode 2 power monitor -	white	L	EL3104	1	-I2	AI	11	15
Laser crystal, TEC error signal +	green	L	EL3104	1	+I3	AI	11	3
Laser crystal, TEC error signal -	white	L	EL3104	1	-I3	AI	11	16
Doubling crystal, TEC error signal +	green	L	EL3104	1	+I4	AI	11	4
Doubling crystal, TEC error signal -	white	L	EL3104	1	-I4	AI	11	17
Laser diode 1, TEC error signal +	green	L	EL3104	2	+I1	AI	11	6
Laser diode 1, TEC error signal -	white	L	EL3104	2	-I1	AI	11	19
Laser diode 2, TEC error signal +	green	L	EL3104	2	+I2	AI	11	7
Laser diode 2, TEC error signal -	white	L	EL3104	2	-I2	AI	11	20
Noise eater monitor +	green	L	EL3104	2	+I3	AI	11	12
Noise eater monitor -	white	L	EL3104	2	-I3	AI	11	25
	green	L	EL3104	2	+I4	AI	11	
	white	L	EL3104	2	-I4	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	+I1	AI	10	13

DC PD1 –	white	L	EL3104	9	–I1	AI	10	32
DC PD2 +	green	L	EL3104	9	+I2	AI	10	14
DC PD2 –	white	L	EL3104	9	–I2	AI	10	33
DC PD3 +	green	L	EL3104	9	+I3	AI	10	9
DC PD3 –	white	L	EL3104	9	–I3	AI	10	28
DC PD4 +	green	L	EL3104	9	+I4	AI	10	10
DC PD4 –	white	L	EL3104	9	–I4	AI	10	29
DC PD5 +	green	L	EL3104	10	+I1	AI	10	5
DC PD5 –	white	L	EL3104	10	–I1	AI	10	24
DC PD6 +	green	L	EL3104	10	+I2	AI	10	6
DC PD6 –	white	L	EL3104	10	–I2	AI	10	25
DC PD7 +	green	L	EL3104	10	+I3	AI	10	1
DC PD7 –	white	L	EL3104	10	–I3	AI	10	20
DC PD8 +	green	L	EL3104	10	+I4	AI	10	2
DC PD8 –	white	L	EL3104	10	–I4	AI	10	21
DC PDs SQZ (concentrator 7)								
5VRET_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	+I1	AI	9	9
DC PD1 –	white	L	EL3102	15	–I1	AI	9	28
DC PD2 +	green	L	EL3102	15	+I2	AI	9	10
DC PD2 –	white	L	EL3102	15	–I2	AI	9	29
DC PD3 +	green	L	EL3104	16	+I1	AI	9	5
DC PD3 –	white	L	EL3104	16	–I1	AI	9	24
DC PD4 +	green	L	EL3104	16	+I2	AI	9	6
DC PD4 –	white	L	EL3104	16	–I2	AI	9	25
DC PD5 +	green	L	EL3104	16	+I3	AI	9	1
DC PD5 –	white	L	EL3104	16	–I3	AI	9	20
DC PD6 +	green	L	EL3104	16	+I4	AI	9	2
DC PD6 –	white	L	EL3104	16	–I4	AI	9	21
PD Monitor 1 +	green	L	EL3104	17	+I1	AI	9	16
PD Monitor 1 –	white	L	EL3104	17	–I1	AI	9	35
PD Monitor 2 +	green	L	EL3104	17	+I2	AI	9	15
PD Monitor 2 –	white	L	EL3104	17	–I2	AI	9	34
PD Monitor 3 +	green	L	EL3104	17	+I3	AI	9	14
PD Monitor 3 –	white	L	EL3104	17	–I3	AI	9	33
PD Monitor 4 +	green	L	EL3104	17	+I4	AI	9	13
PD Monitor 4 –	white	L	EL3104	17	–I4	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	EK1101	0	24V	P	TBLOCK	
0V	gray	M	EK1101	0	0V	P	TBLOCK	
5V_5	red	M	EK1101	0	+	P	DC_4	+V
5VRET_4	black	M	EK1101	0	-	P	DC_4	-V
5V_2	red	L	EL9190	4	+	P	DC_2	+V
5VRET_2	black	L	EL9190	4	-	P	DC_2	-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/0	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 discriminator 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	+I1	AI	6	9
LO power -	white	M	EL3104	12	-I1	AI	6	28
RF power +	green	M	EL3104	12	+I2	AI	6	10

RF power –	white	M	EL3104	12	–I2	AI	6	29
Mixer +	green	M	EL3104	12	+I3	AI	6	11
Mixer –	white	M	EL3104	12	–I3	AI	6	30
EOM RMS value +	green	M	EL3104	12	+I4	AI	6	12
EOM RMS value –	white	M	EL3104	12	–I4	AI	6	31
DC6_RET	black	M	EL3102	13	COM	P	DC6	V-
Fast output +	green	M	EL3102	13	+I1	AI	6	13
Fast output –	white	M	EL3102	13	–I1	AI	6	32
	green	M	EL3102	13	+I2	AI		
	white	M	EL3102	13	–I2	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		

Squeezer Controls Chassis 3				Right Rail				
Name	Color	Rail	Module	Number	Channel	Type	Adapter	Pin