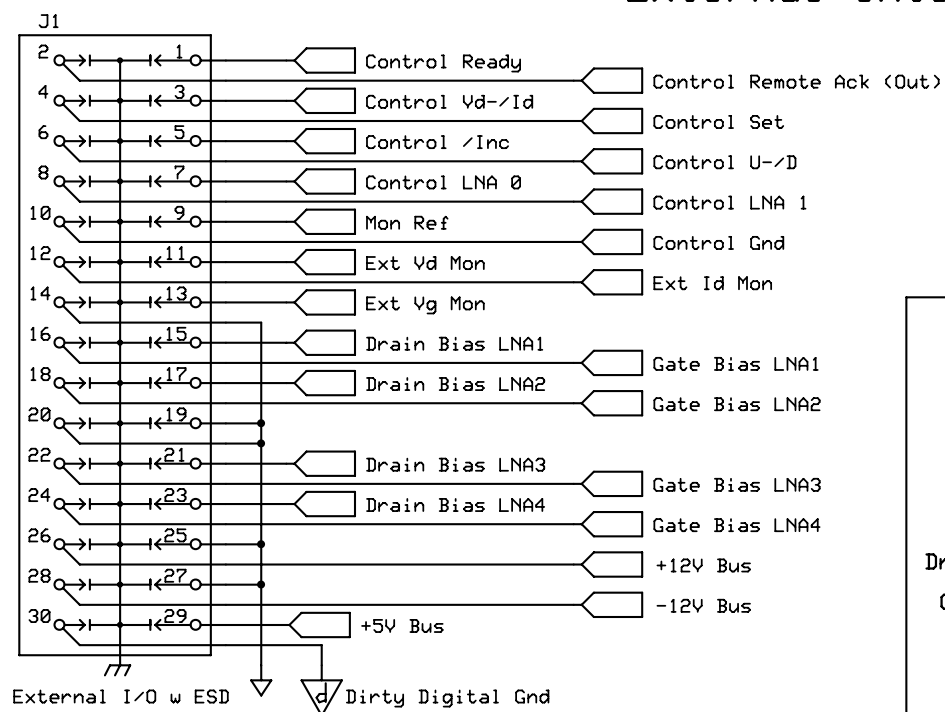


External Interface Connector



DAQ Ready In	1 0	0 2	Remote Acknowledge Out
Vd (Hi) - Id (Low) Select	3 0	0 4	Enable Bias Set (Hi)
Increment Bias (Hi -> Low)	5 0	0 6	Step Up (Hi) - Down (Low)
LNA Select Bit 0	7 0	0 8	LNA Select Bit 1
Bias Monitor Reference Out	9 0	0 10	DAQ Control Ground Return
Drain Voltage Bias Monitor Out	11 0	0 12	Drain Current Bias Monitor Out
Gate Voltage Bias Monitor Out	13 0	0 14	LNA1 Bias Return (Ground)
LNA1 Drain Bias Out	15 0	0 16	LNA1 Gate Bias Out
LNA2 Drain Bias Out	17 0	0 18	LNA2 Gate Bias Out
LNA2 Bias Return (Ground)	19 0	0 20	LNA3 Bias Return (Ground)
LNA3 Drain Bias Out	21 0	0 22	LNA3 Gate Bias Out
LNA4 Drain Bias Out	23 0	0 24	LNA4 Gate Bias Out
LNA4 Bias Return (Ground)	25 0	0 26	+12V Power
+/-12V Power Return (Ground)	27 0	0 28	-12V Power
+5V Power	29 0	0 30	+5V Power Return

J1 Pinout looking into connector

Note:

ESD protection for J1 includes a 0.008in spark gap between each solder pad and Chassis Ground

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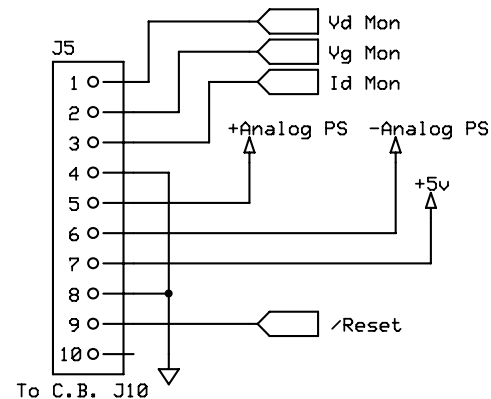
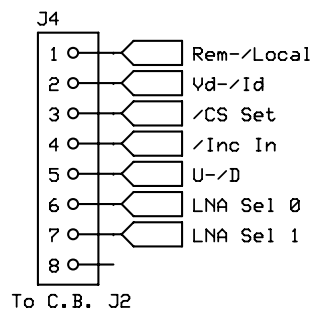
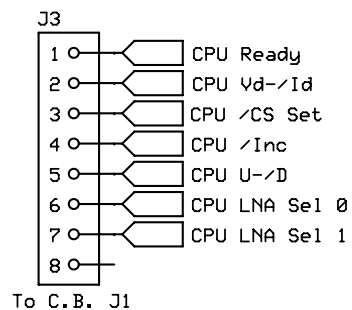
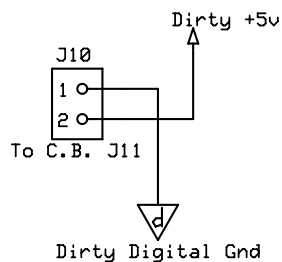
F. Rice

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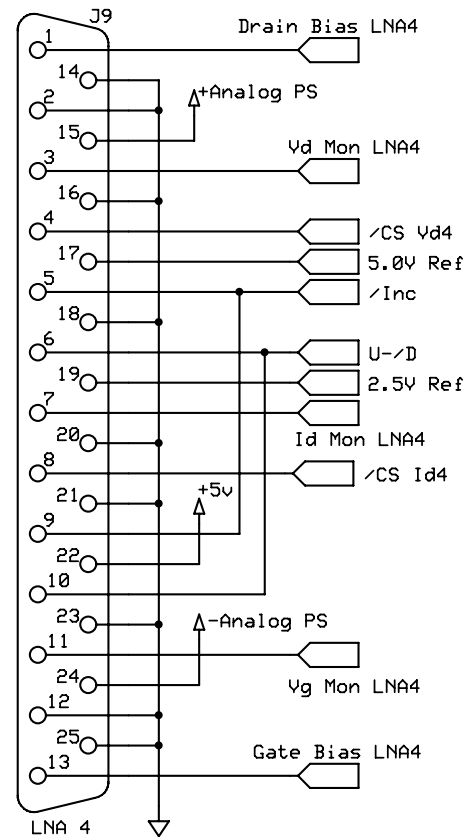
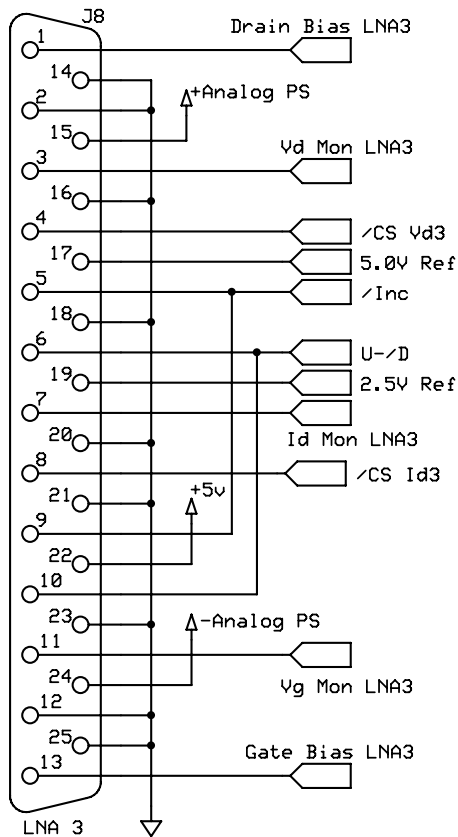
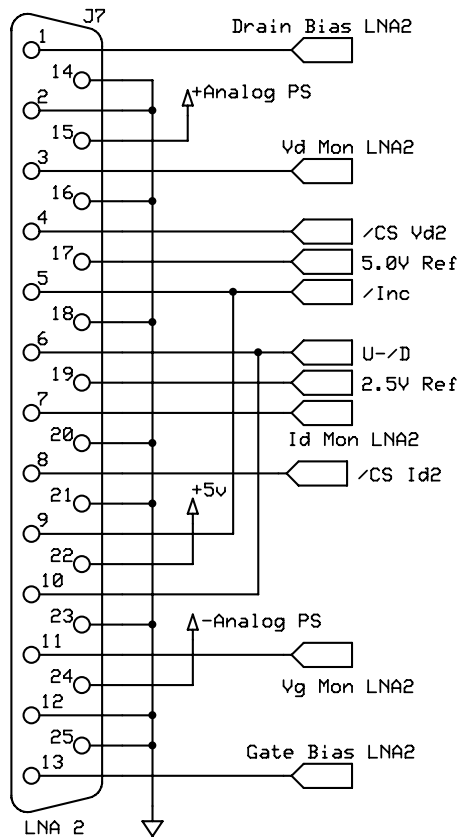
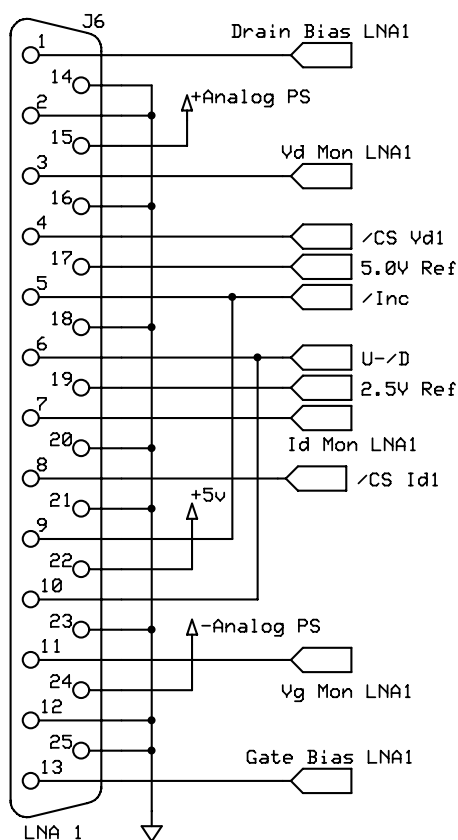
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Control Board Connectors



Daughter Board Connectors



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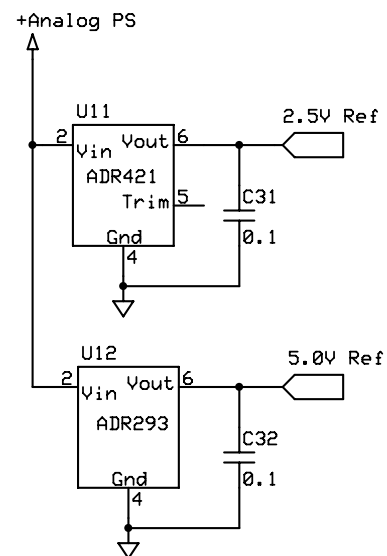
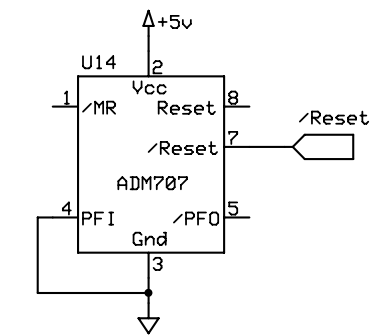
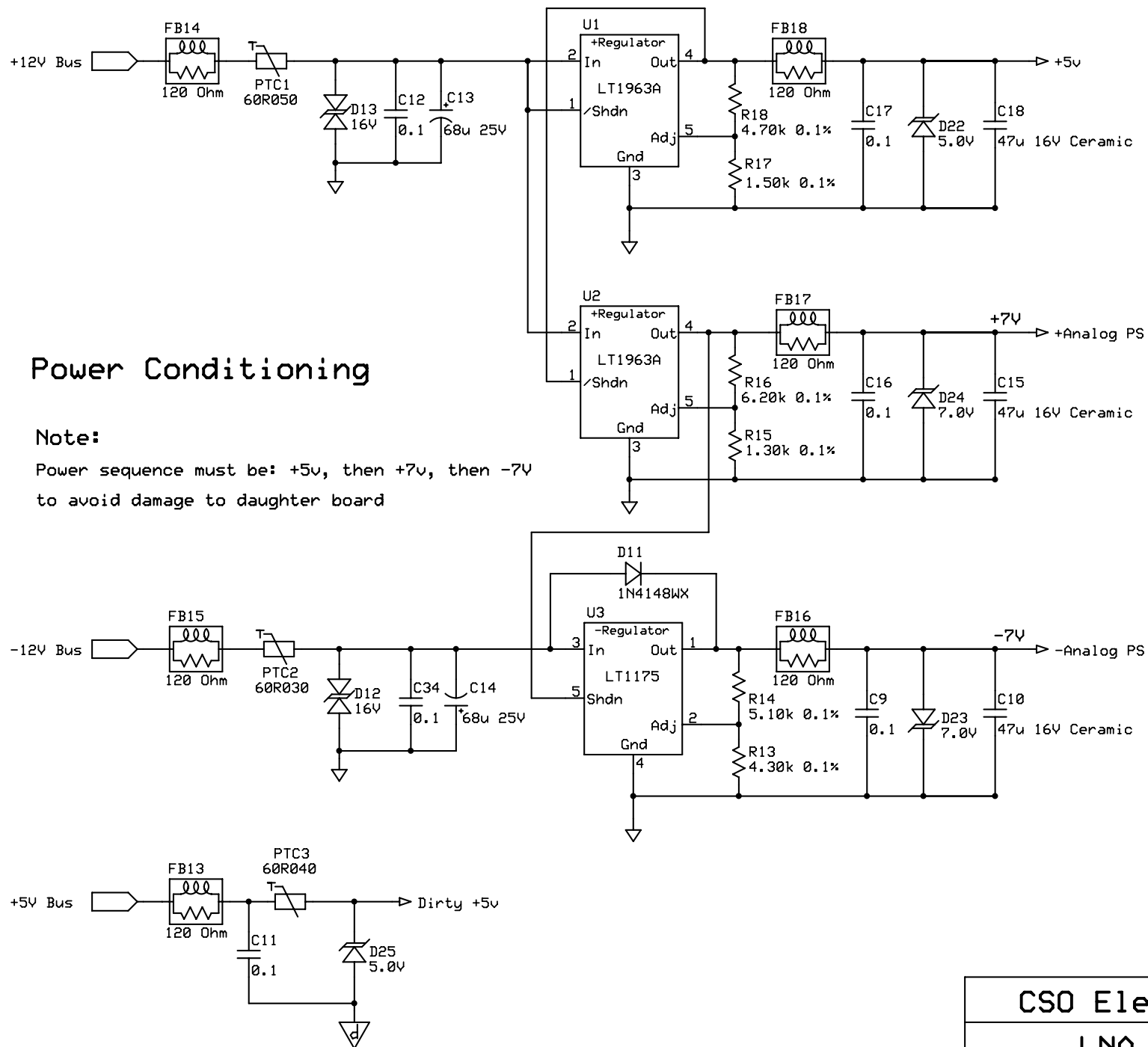
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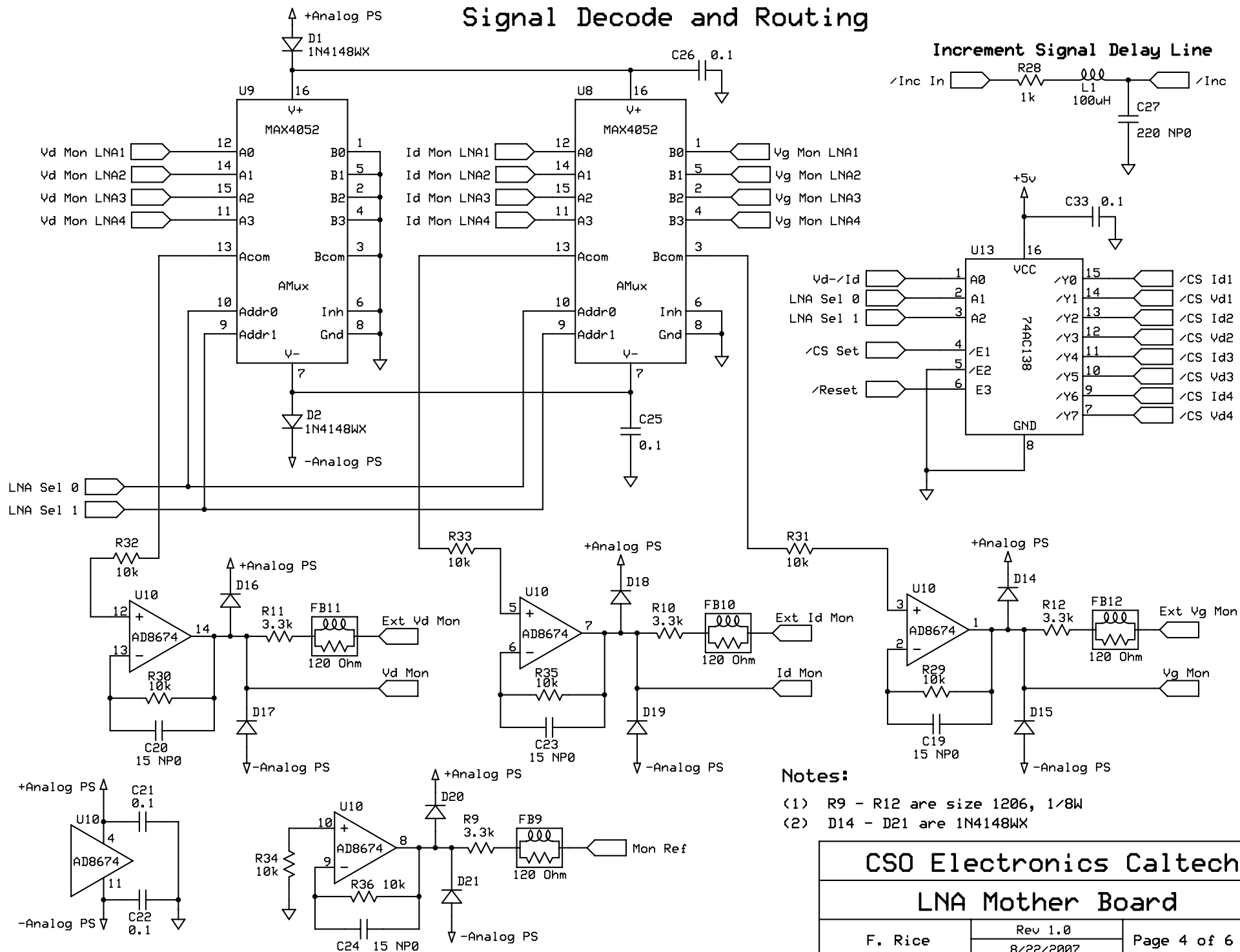
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Signal Decode and Routing



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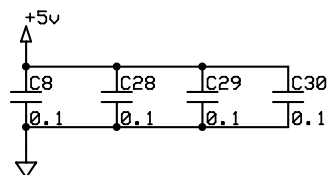
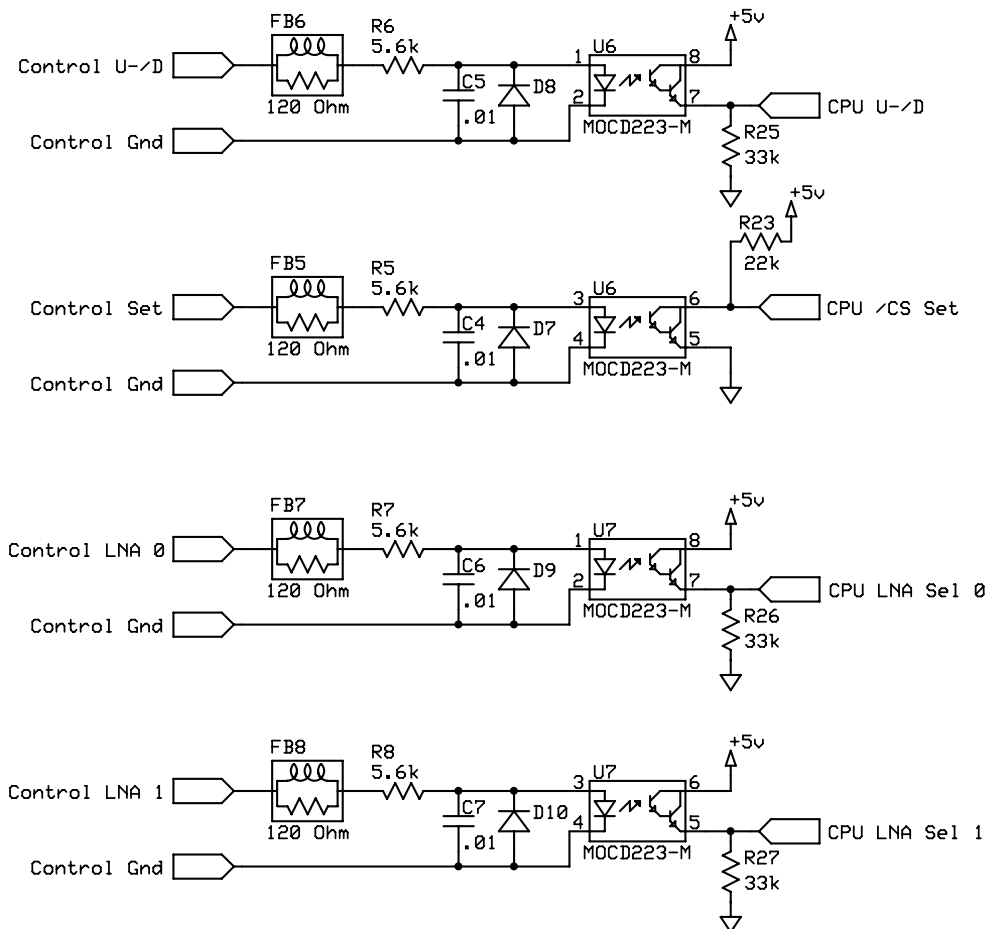
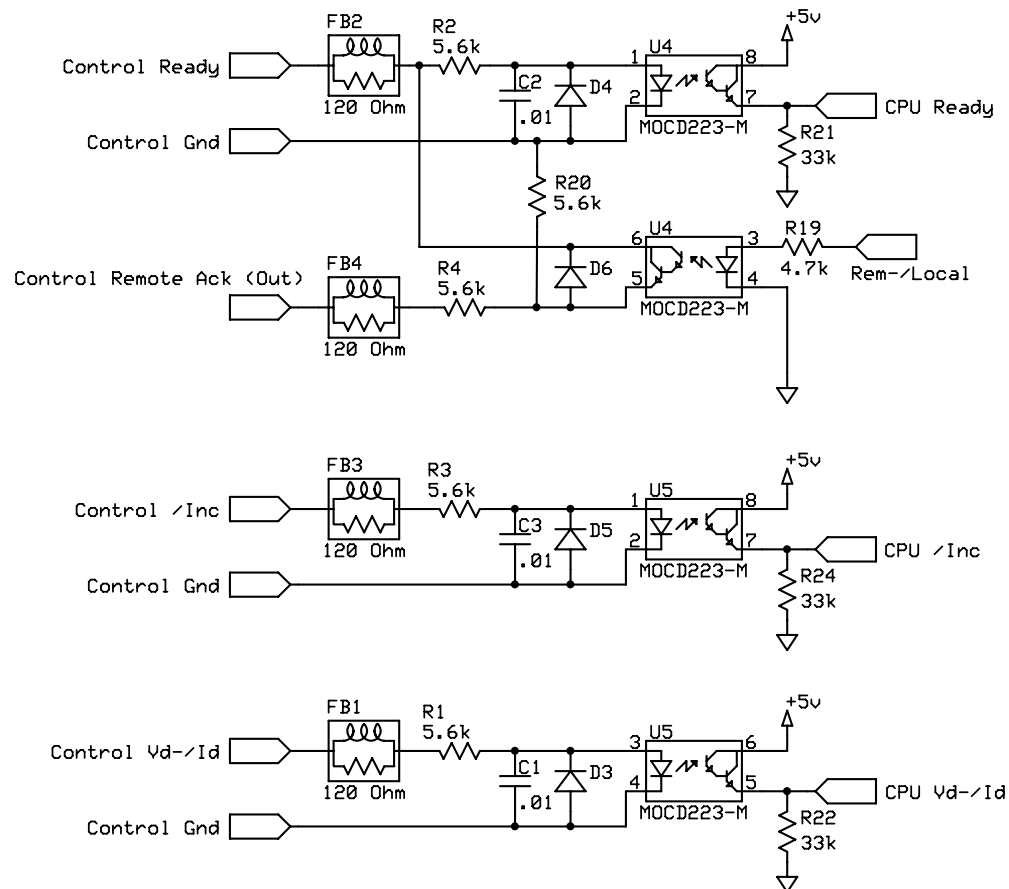
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External Logic Signal Isolation

Notes:

- (1) R1 - R8 and R20 are size 1206, 1/8W
 (2) D3 - D10 are 1N4148WX



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General Notes

Resistors

Unless otherwise specified, resistors are thin-film metal 0805 1/10W

Unless otherwise specified, actual value used may be a standard 1% value within +/-5% of value shown

Capacitors

Unless otherwise specified, capacitors 2.2uF and below are X7R/X5R mulilayer ceramic 16V (or higher)

Unless otherwise specified, capacitors 4.7uF and above are low-ESR tantalum 16V (or higher)

Circuit Board

The circuit board for this design is labeled "LNA Mother Board v1.0" with date 8/22/07

The following components are mounted on the back side of the board:

D1,D2 ; FB1-FB12 ; J1,J6-J9 ; PTC1-PTC3 ; R1-R12 ; U1-U3

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