

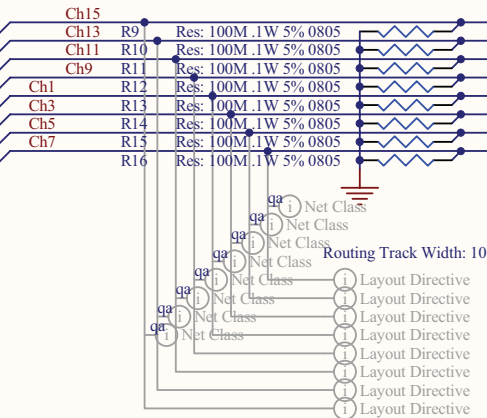
Measure +/-10V signals on Ch1..16 via Analog Multiplexor

These fuses are 100uV to 400uV thermocouples, yet error of that level is ok here.
 F1 Fuse: 7mA h, 25mA t, 470 ohms, 24V, 0805, #PRG18BB471MB1RB
 F2 Fuse: 7mA h, 25mA t, 470 ohms, 24V, 0805, #PRG18BB471MB1RB
 F3 Fuse: 7mA h, 25mA t, 470 ohms, 24V, 0805, #PRG18BB471MB1RB
 F4 Fuse: 7mA h, 25mA t, 470 ohms, 24V, 0805, #PRG18BB471MB1RB
 Footprint: 0805 or 0603, Murata #Prg18... is 0603

+5V measurement of user Channels 1...16 via Hd44 Connector

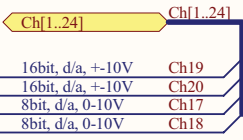
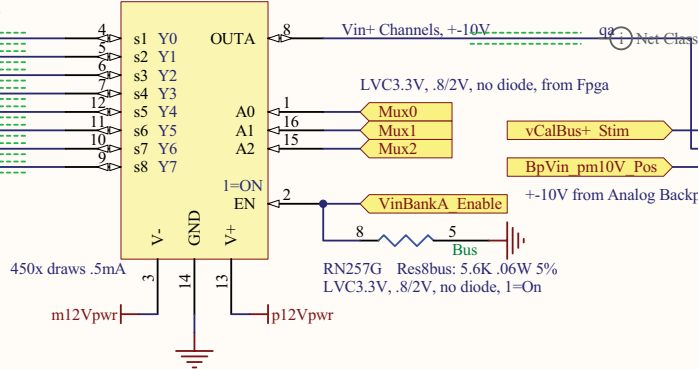
Ch[1..24] Ch[1..24]

Vin+ Channels, +/-10V



8:1 Analog Mux

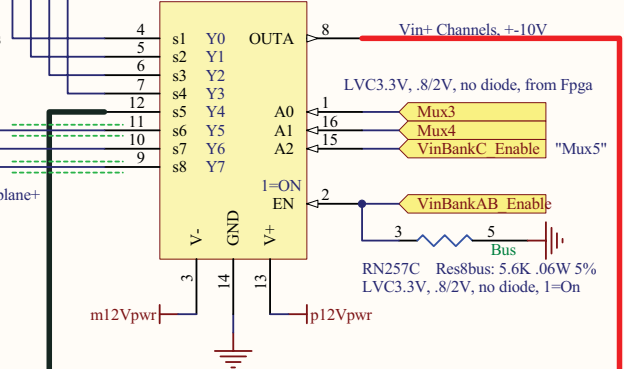
Ron = 200 to 400 ohms
 300 ohms +/-35V protection, must be Max47xx and NOT Max45xx
 1ch 8:1 Mux
 2nA ic's, +/-10uV Accuracy
 IC: 1x 8:1 Mux 36Vps, 30Vprotection, 1nA@25C, SO-16, #Max4708ESE
 U6



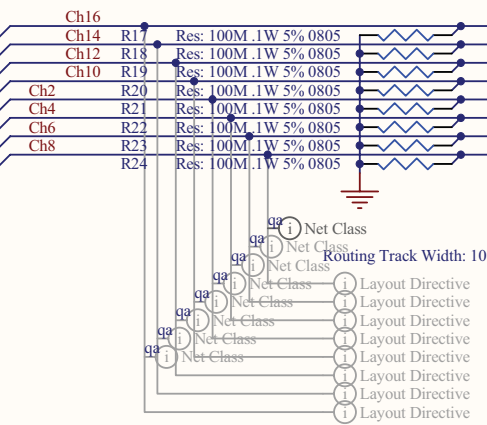
usc_Dac9
usc_Dac10
usc_Dac1
usc_Dac2

8:1 Analog Mux

Ron = 50 to 100 ohms
 1ch 8:1 Mux
 2nA ic's, +/-10uV Accuracy
 IC: 1x 8:1 Mux 36Vps 2nA 30mA 2Vttl eg #DG408
 U8

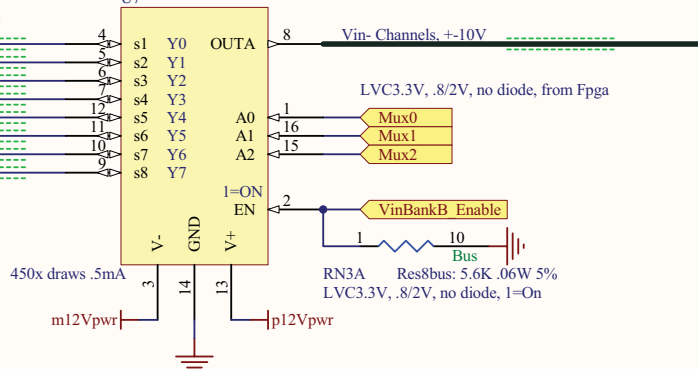


Vin- Channels, +/-10V



8:1 Analog Mux

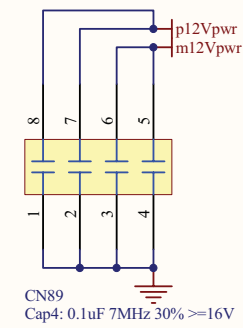
Ron = 200 to 400 ohms
 300 ohms +/-35V protection, must be Max47xx and NOT Max45xx
 1ch 8:1 Mux
 2nA ic's, +/-10uV Accuracy
 IC: 1x 8:1 Mux 36Vps, 30Vprotection, 1nA@25C, SO-16, #Max4708ESE
 U7



Main +/-10V Analog Bus+ pm10V Ch1 16+

Main +/-10V Analog Bus- pm10V Ch1 16-

+/-10V signals from Ch1..16 and from analog backplane, and vCal+



| | | | | |
|---|------------------|----------------|--|--|
| Title | | | gw instruments, inc 35 medford st. somerville, ma 02143, USA www.gwinst.com | |
| Size: Letter | Number: | Revision: | gwi | |
| Date: 8/15/2009 | Time: 5:04:44 PM | Sheet 921 of 9 | | |
| File: C:\Documents and Settings\Owner\My Documents\GWT\gwi_Dev\iNet-4xx 2004 Design\4xx schematics\i430 a_d\i430_SchPcb_Cur | | | | |