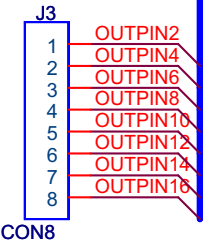


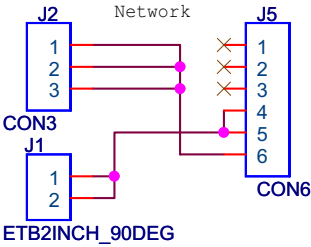
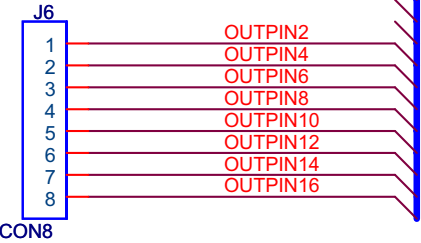
T3-32AI

terminal
block

SIP



Rear SIP



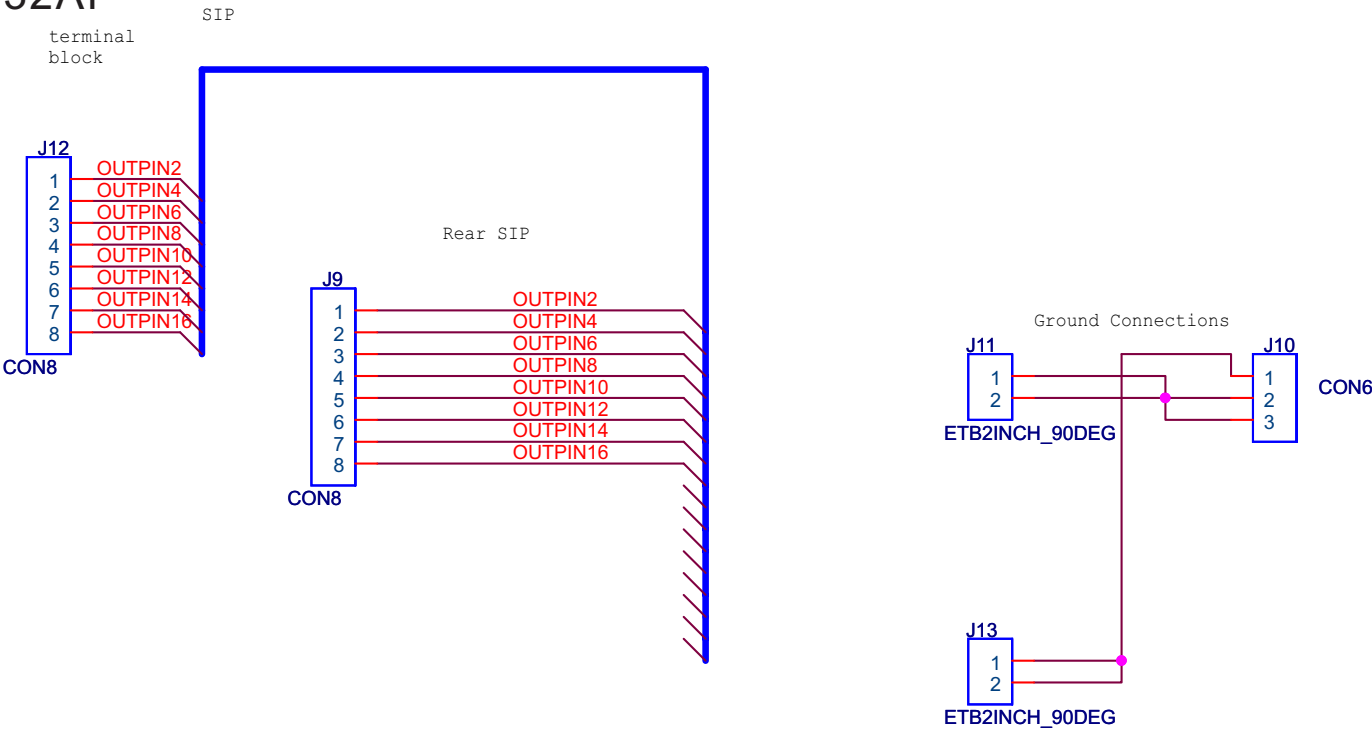
Calcuated spacing for upper connector = 0.621"

Jus use sip haeders as Amang has, try them out

Rev9: added header for RS485 connector

		TEMCO CONTROLS LTD. 1027 WEST 7TH AVE VANCOUVER BC, V6H 1B2 TEL: (604) 438 - 8294 FAX: (604) 438 - 9313			
		T3000 OUTPUT CARD			
		Size A	CAGE Code <Cage Code>	DWG NO	Rev 03
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T3-32AI



Calculated spacing for upper connector = 0.621"

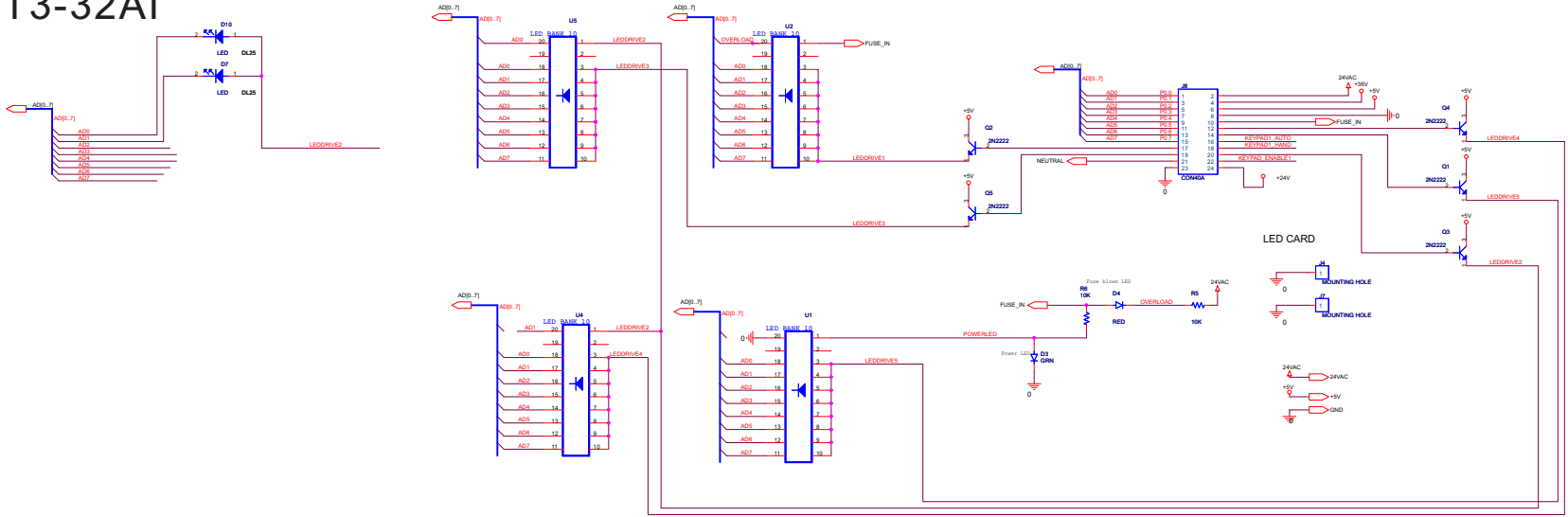
Jus use sip haeders as Amang has, try them out

Rev9: added header for RS485 connector

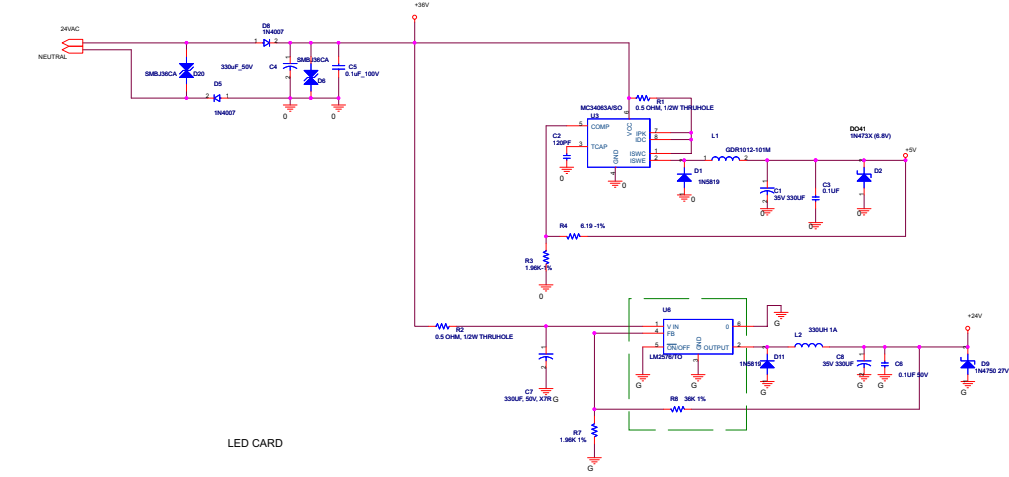
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		T3000 OUTPUT CARD			
		Size A	CAGE Code <Cage Code>	DWG NO	Rev 03
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T3-32AI

LED CARD

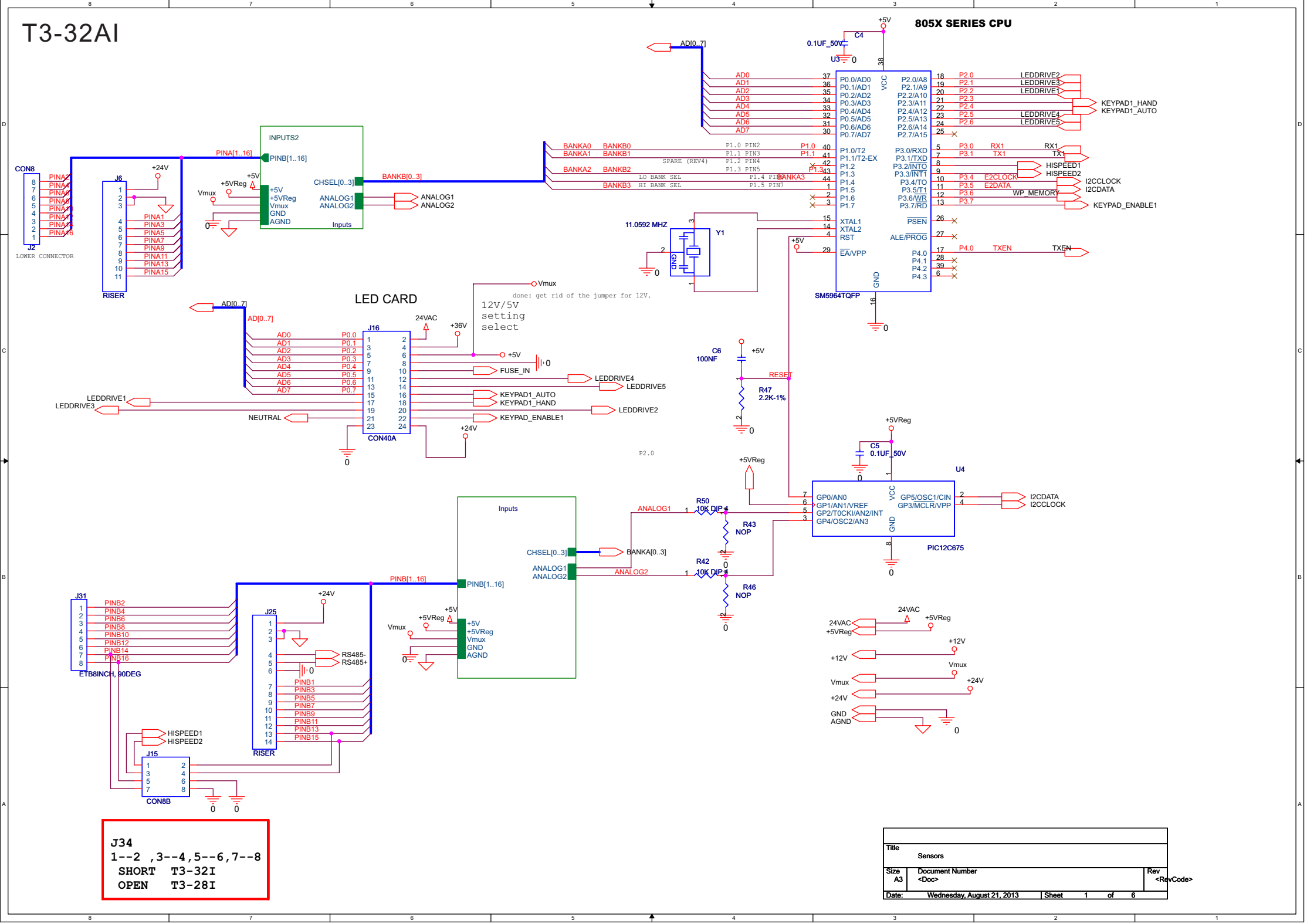


LED CARD



TERRY OWEN ELECTRONICS 805 WEST 17TH AVE VANCOUVER, BC V6M 1B2 TEL: (604) 681-8204 FAX: (604) 681-9315			
T3-32AI OUTPUT CARD			
Rev D	DATE CODE -Cage Code-	DATE NO	Rev 03
Monday, August 05, 2013	Scale	Sheet	1 of 2

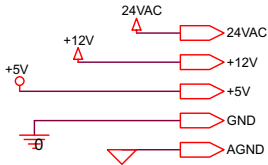
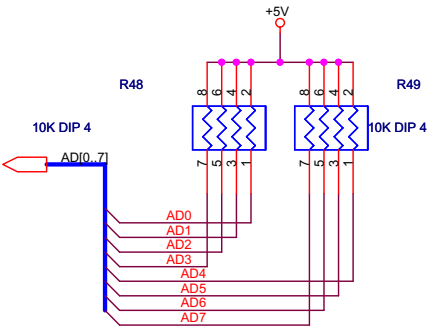
T3-32AI



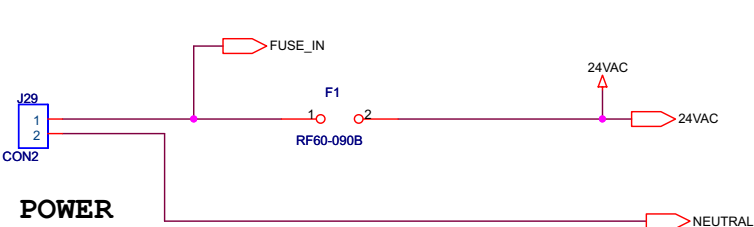
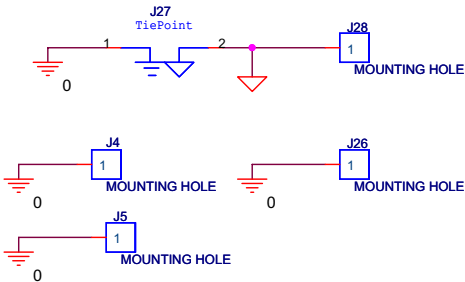
J34
 1--2 ,3--4,5--6,7--8
 SHORT T3-32I
 OPEN T3-28I

Title		
Sensors		
Size	Document Number	Rev
A3	<Doc>	<RevCode>
Date:	Wednesday, August 21, 2013	Sheet 1 of 6

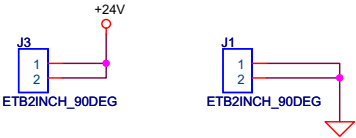
T3-32AI



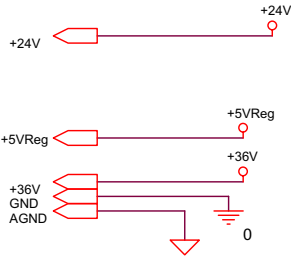
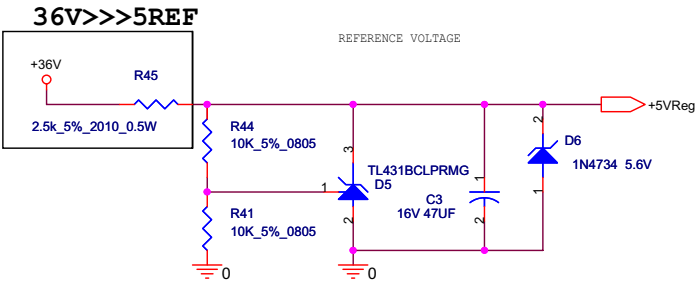
Mounting Holes



POWER

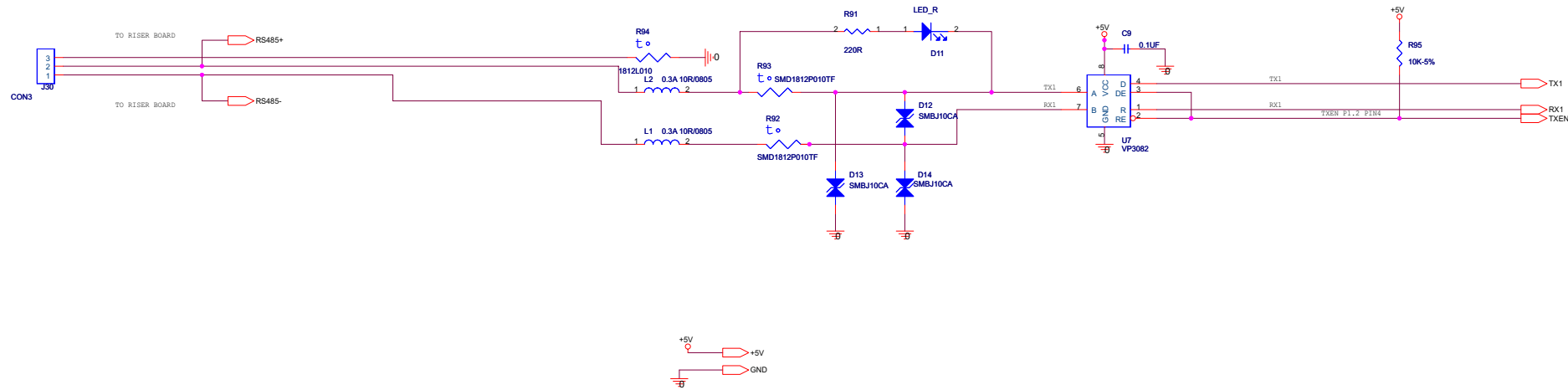


POWER



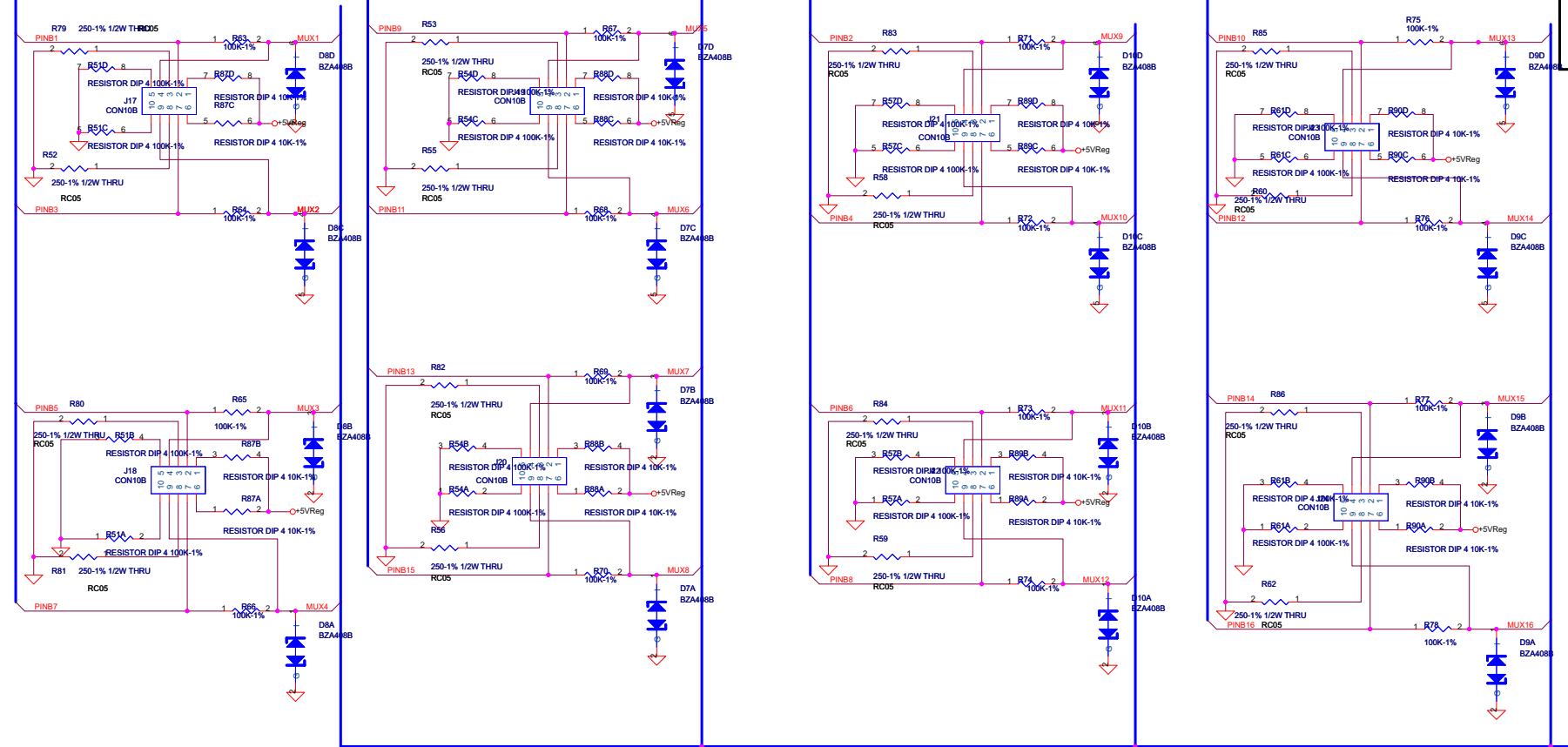
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T3-32AI

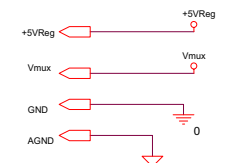
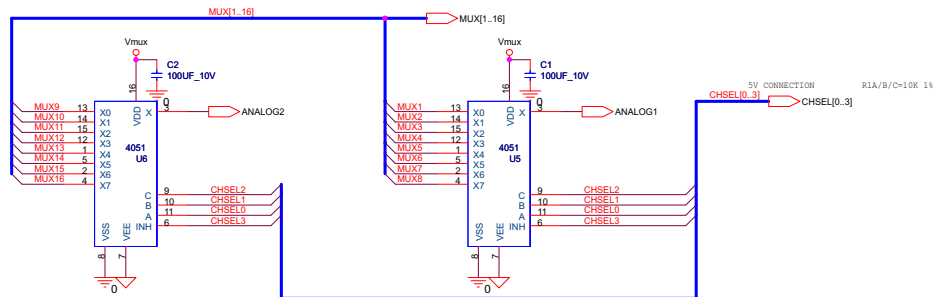


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T3-32AI

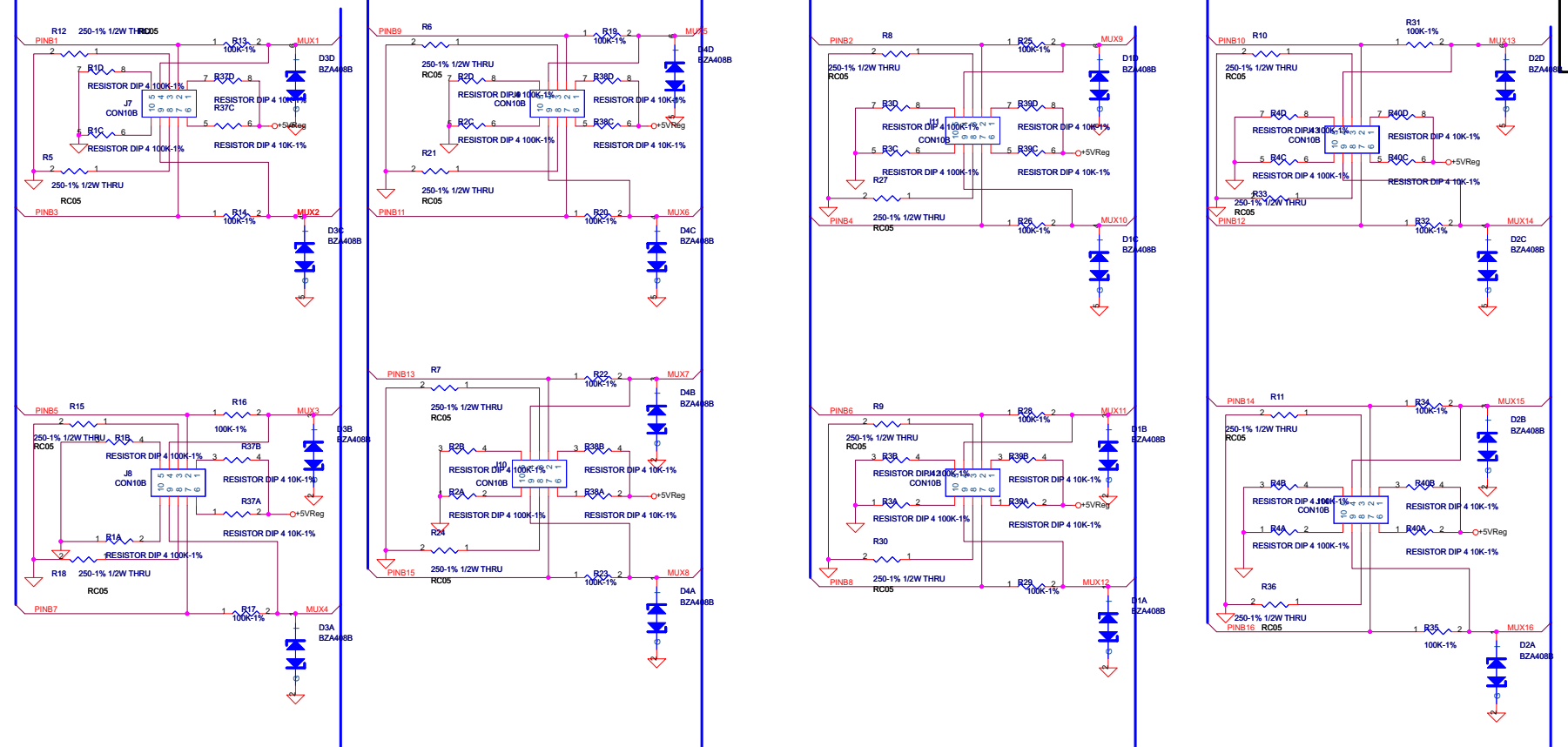


Jumper setting
 2+3= 4--20mA
 1+2 = sensor
 4+5 = 0-10V

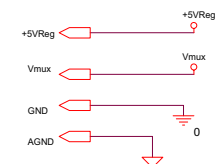
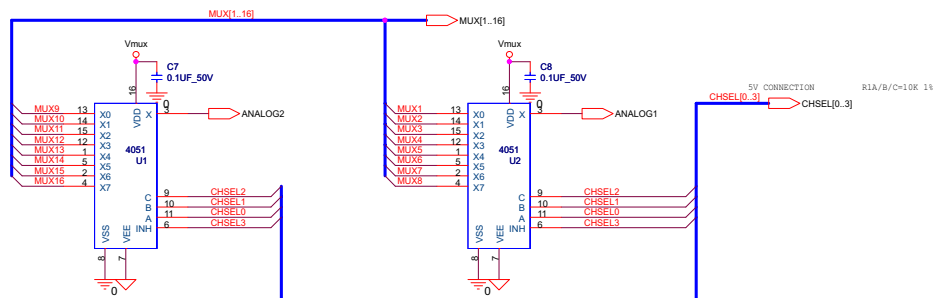


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T3-32AI



Jumper setting
2+3= 4--20mA
1+2 = sensor
4+5 = 0-10V



32 INPUT

- Rev1
- Done: Took 8in8out board and modified for 32 inputs
 - Done: Reduce number of pins on riser cards since they get in the way, align in the center
 - Done: allow full and half wave power supplies, this means changing the upper card, jumper selectable
 - Done: add LEDs, use the bargraph type
 - Done: for the full wave make sure to have two separate lines, gnd and neutral
 - Done: synchronize the pins from the bottom board to the led board

- Rev2
- (01/24/05) add a 12 volt voltage divider for inputs
 - (01/24/05) add a 5 volt pull up on the input lines.
 - (01/24/05) removed the 10K packets and placed a 1K current limiting
 - (01/24/05) added connection to the 5 volts reg
 - (01/25/05) added Vmux which allows us to set the mux to 12 or 5 volts Vdd.
 - Done: make hardware rev visible on board while inside the enclosure

- Rev3
- Done: change the VDD supply to the pic chip to 5Vreg
 - Done: fix BAS40 on RS485 line
 - Done: DELETE rs485 RESISToRS
 - Done: make space for 24pin header

- Rev4
- TBD: update thermal relief
 - TBD: need to work out mux vcc, 12V is too high
 - Done: input resistor is OK, double confirmed now
 - Done: Add RS485 opto isolator module.

- Rev5
- Done: swap power lines to RS485 module
 - Done: rotate F1
 - Done: make 120, mostly for datanab
 - For using OPTO-Isolated RS485 module, the corresponding LEDBOARD is modified as following: R6 changed to 2K 1% R8 changed to 5.9K 1%
 - TBD: the Ground of two RS485 connectors are different, they should both be connected to the ground of the RS485 module
 - TBD: the voltage of J5(mux's supply) need to be decreased to 10v to adapt 5v supply required by RS485 module, in series with an extra diode to the supply

- Rev10
- TBD:move the hole far away to component pad on PCB,modify 16SOP150 footprint.

- Rev11
- done::add 5v vref for input<Check this

- Rev12
- done:Rev12: add TXEN pin for RS485 module
 - done:Rev12: try to fit zigbee module here
 - done:Rev12: check 24vac protection on all pins
 - done:Rev12: check jumper silk screen is big

- Rev13
- done:ADD J35&J34 JUMPER , J34&J35 SHORT 28I, J34&J35 OPEN 32I

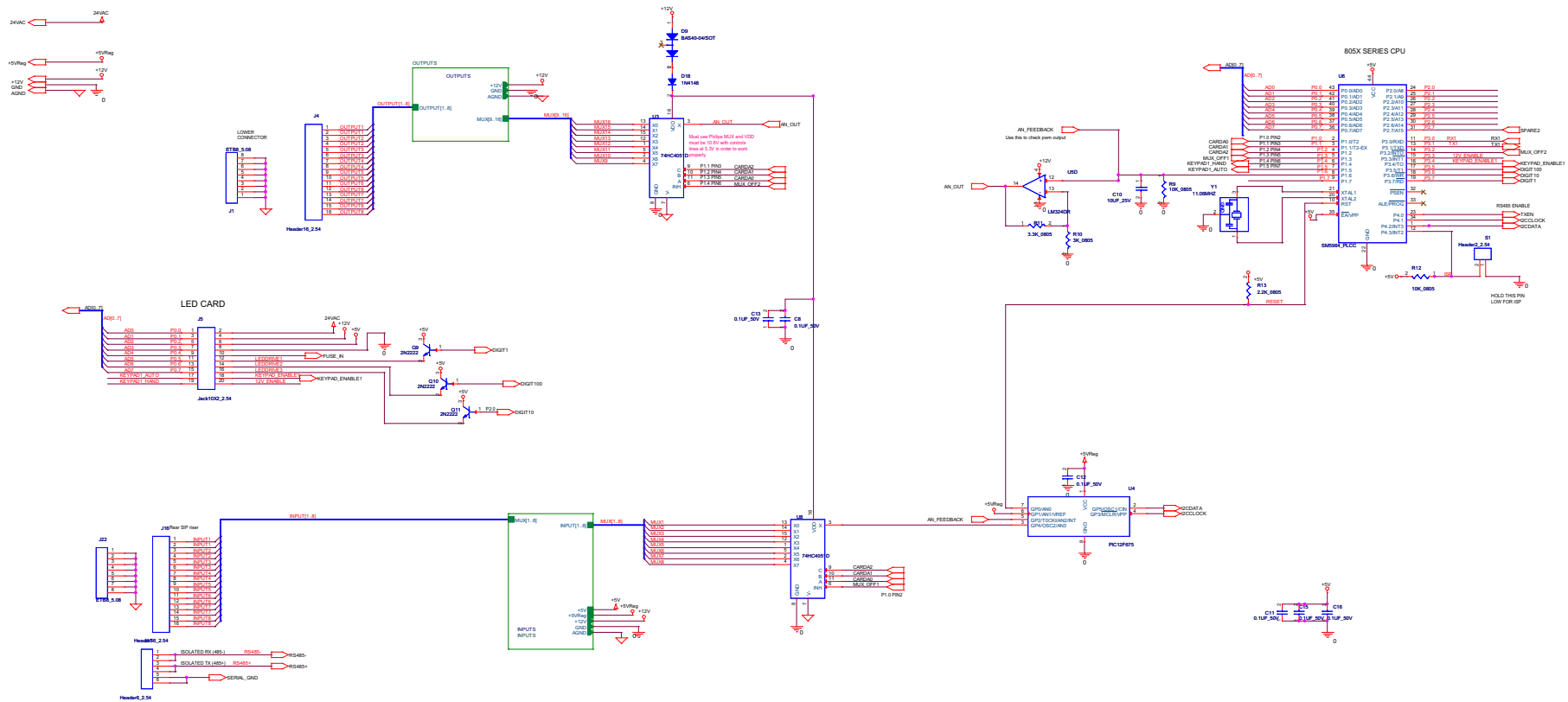
- Rev14
- done:Del J35&J34 Jumpers , Add new 8PIN pinheader for 32I&28I switchover .

- Rev15
- done: change the rev14 J34 net. now jumper out for T3-32IN and jumper in for T3-28IN with two channels high speed counting.
- Rev16
- done:get the RS485 module down lower.
 - done: move the top row of terminal inward for lmm
 - done:Silk screen shows rev12 and rev5 for bottom.
 - tbd: update rev notes, check half wave jumper, get rid of it next rev
 - tbd: get rid of the jumper for 12V.
 - tbd: change the reference vaoltage circuit.

- Rev17:
- done: update rev notes, check half wave jumper, get rid of it next rev
 - done: get rid of the jumper for 12V.
 - done: change the reference vaoltage circuit.
 - done: delete 12V power supply.

Title		
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Size B	Document Number <Doc>	Rev <Rev Code>
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T3-8A18AO



		VERBO CONTROLS LTD. 3027 WEST 7TH AVE VANCOUVER BC V6M 1B2 TEL (604) 231-2224 FAX (604) 231-3913 VERBO OUTPUT CARD			
		Item ID	CAGE Code <Cage Code>	ORIG NO	Rev 03
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T3-8AI8AO

	May2: 2001
DONE	Pin7 No ground on U7
DONE	Analog output from DAC needs to be routed to output mux, missing wire
DONE	LED card needs ot be really checked over, not working Added spares to connector, moved pins around, moved connectors around
DONE	15V fused, doest make it out to led card, renamed it to 15V, all are on the fuse now
DONE	Q2n222 for 5V regulated, its backwards
DONE	CardSelect can go directly to Pjn 6 of small output mux
DONE	Chip select for mux for inputs, U??, can go to ground all the time since there are separate In lines for each input card. Actually its just done in parallel with the other mux
DONE	No room: moved MOV's to terminal block card

Rev8
Rework to plastic enclosure

Rev9
Add local controller, modbus port
USB...???

Rev11
Switched + and - 485 pins
Added +5Reg to VREF of PIC
Fixed the positioning of connectorboard1
Made mounting holes bigger
More room for input/output connectors
Moved power and fuse LEDs to top board
Added latches for both switch banks on LED board

Rev12
Switched 485 + and - on upper header
made traces on 485 protection wider
moved pin labelling to bottom of board
Added 4148 protection diodes to +V on inputs and outputs
Removed 1W resistors on output lines
moved 485 to top and made thru-hole (use a socket)

Rev13
added 30R resistors to the 485 lines
connected reset pin to one pin of the PIC chip
moved shunting diodes on input lines to CPU
side of 100K resistor
got rid of J7 and J8 - TTL no longer necessary

Rev14
TBD: move flash jumper to location accessable when
board is in enclosure

TBD: make hardware rev visible on board while inside the enclosure

Rev15
Done: make sure LED board connector complies with new rev (led rev14)
Done: add a 5Vreg and take out op-amps
Done: remove 470ohm current limittig resistor such that can obtain zero voltage level
Done: the 100k resistors were reduced to 1K on the input. don't remember why though
Done: change current sensing resistors to 1/2W thru-hole
Done: use new crystal footprint
Done: add current limiting resistor to gnd line of com485
Done: use 10K packet resistors for pull-up
Done: check footprint of various chips
Done: use BAS40 for protection on inputs and outputs
Done: when uploading the code make sure using analog. Never
been tested so probably modification needed.
Done: move flash jumper to location accessable when board is in enclosure
Done: make hardware rev visible on board while inside the enclosure

Rev16 (make 35 for data Nab)
Done: BAS40 on RS485 line to flip. layout incorrect!
Done: need 1M pull down resistor on all outputs
Done: Bigger footprint for 1/2 watt 250 ohm R's
Done: Bigger footprint for RS485 transorbis

Rev17
Done: put pull-up on reset line. PIC will pull it down
Done: add pullup for isp line, noticed NC module was going into ISP mode sometimes.
Done: removes pull up and pull down on RS-485 lines
Done: wider spacing for 250 Ohm resitors
Done: smt for PIC chip
Done: add RS485 optoisolator module
Done: move PWM cap away from connector
Done: add fuse to neutral on power connector

Not done: 10uF AO caps can be changed to 100uF.
TODO: make 9 for Malaysia

Rev18
Done: The RS485 module need to be moved toward U6 about
1-2mm, moved toward R30, R32 a little to shun J4(the erected PCB),
and R30,R32 also need to be keep away from the RS485 module

Done: the footprint of C1 - C7, C9 is too narrow, need to be
extended

TBD: the 78L12 in the LED borad is too hot, change to 7812

Done: check the ground of two RS485 connectors to
see whether they are connected to the ground of
RS485 module

Done: the voltage of U3(mux) need to be decreased to 10v to adapt 5v supply required
by RS485 module, in series with an extra diode to the supply

Rev19
TBD: the polarity of C1 - C7, C9 should be annotated in silk layer

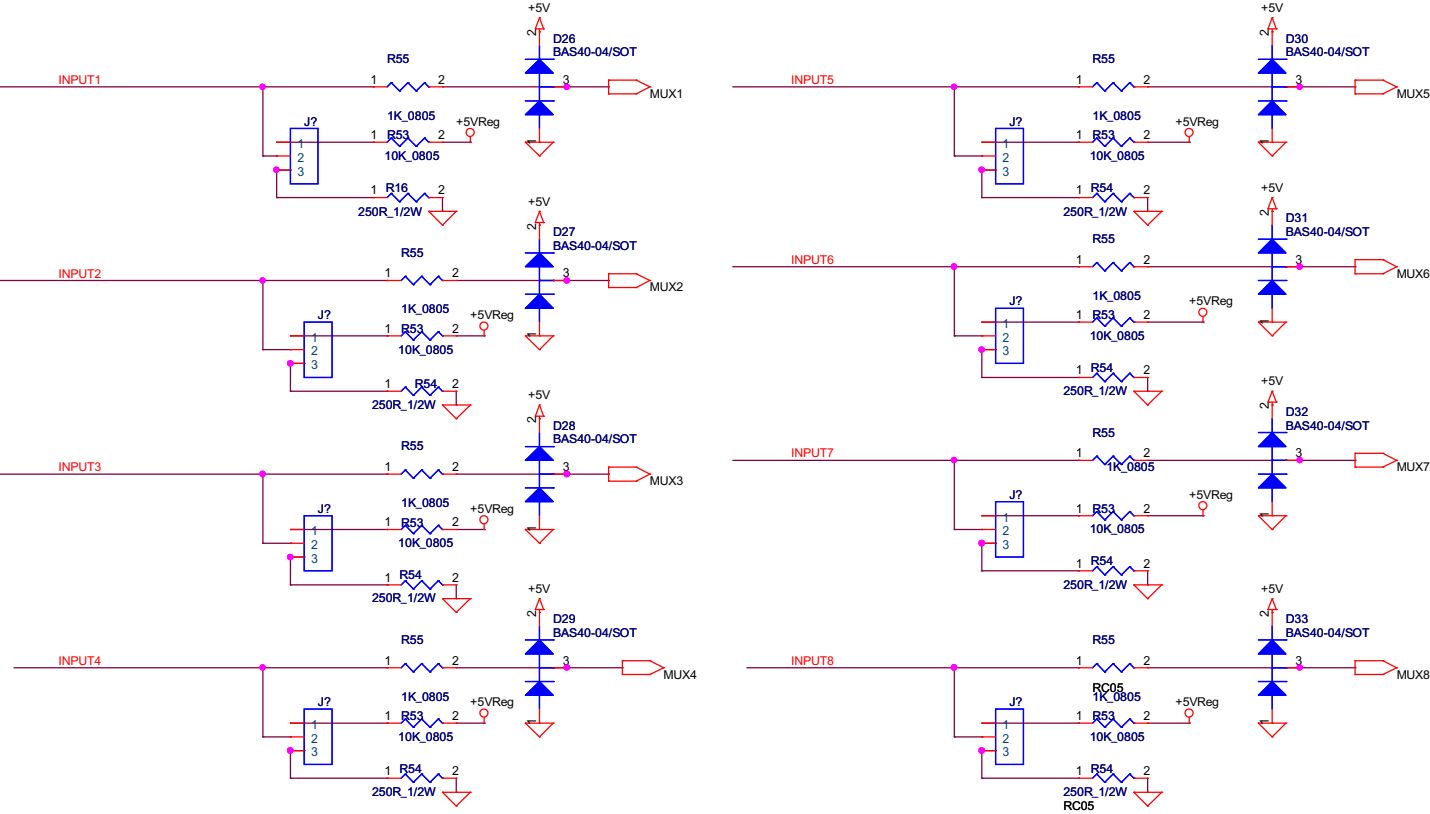
TBD: delete the temco controls on the top board.

TBD: Add RS485 TXEN Signal , From U6 PIN23 to J6 pin8 .

TBD: xx.dsn and xx.max will change 2n2222 to star

dard footprint (SM/SOT23_123)

T3-8AI8AO

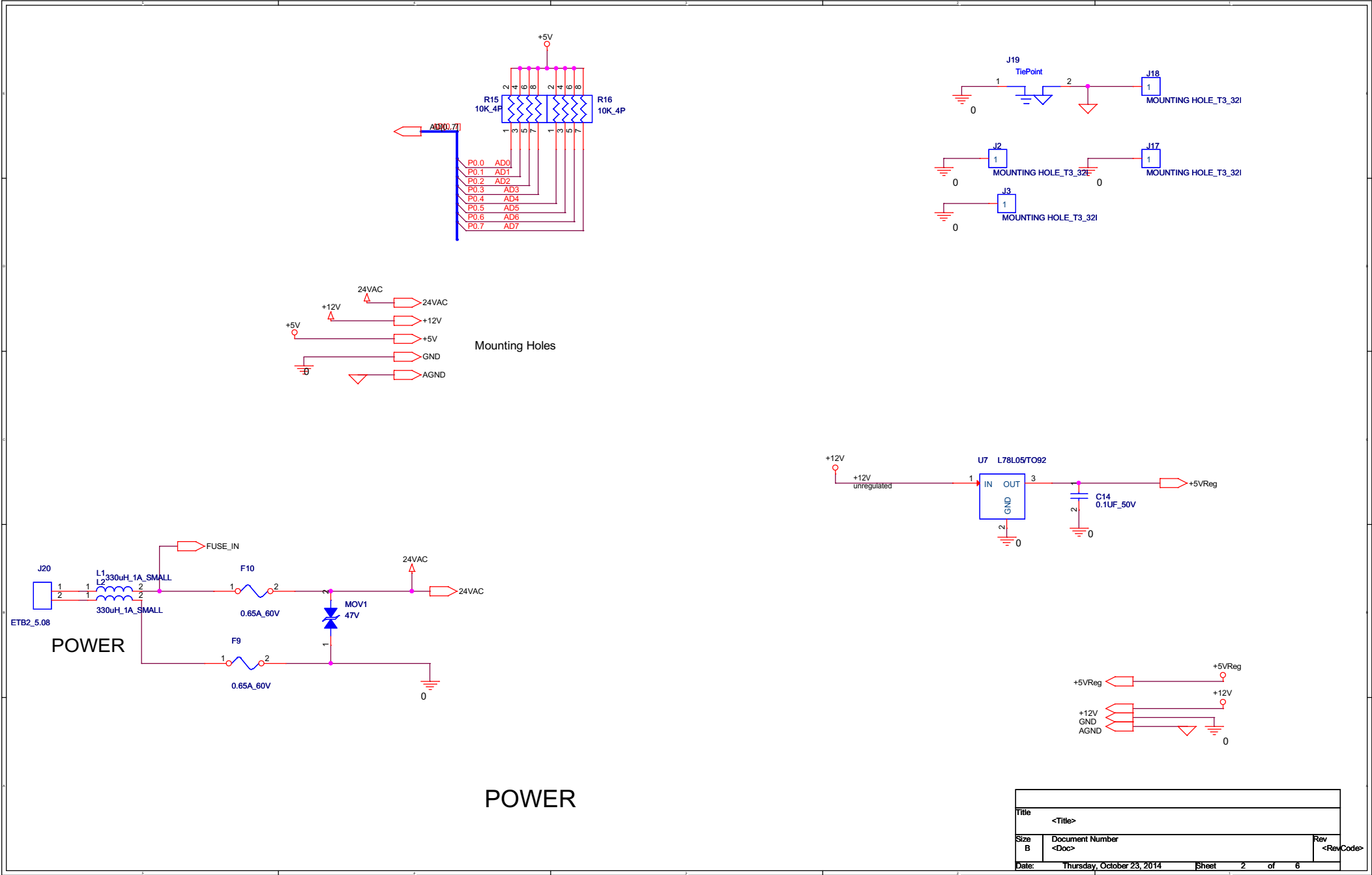


MUX[1..8]
INPUT[1..8]

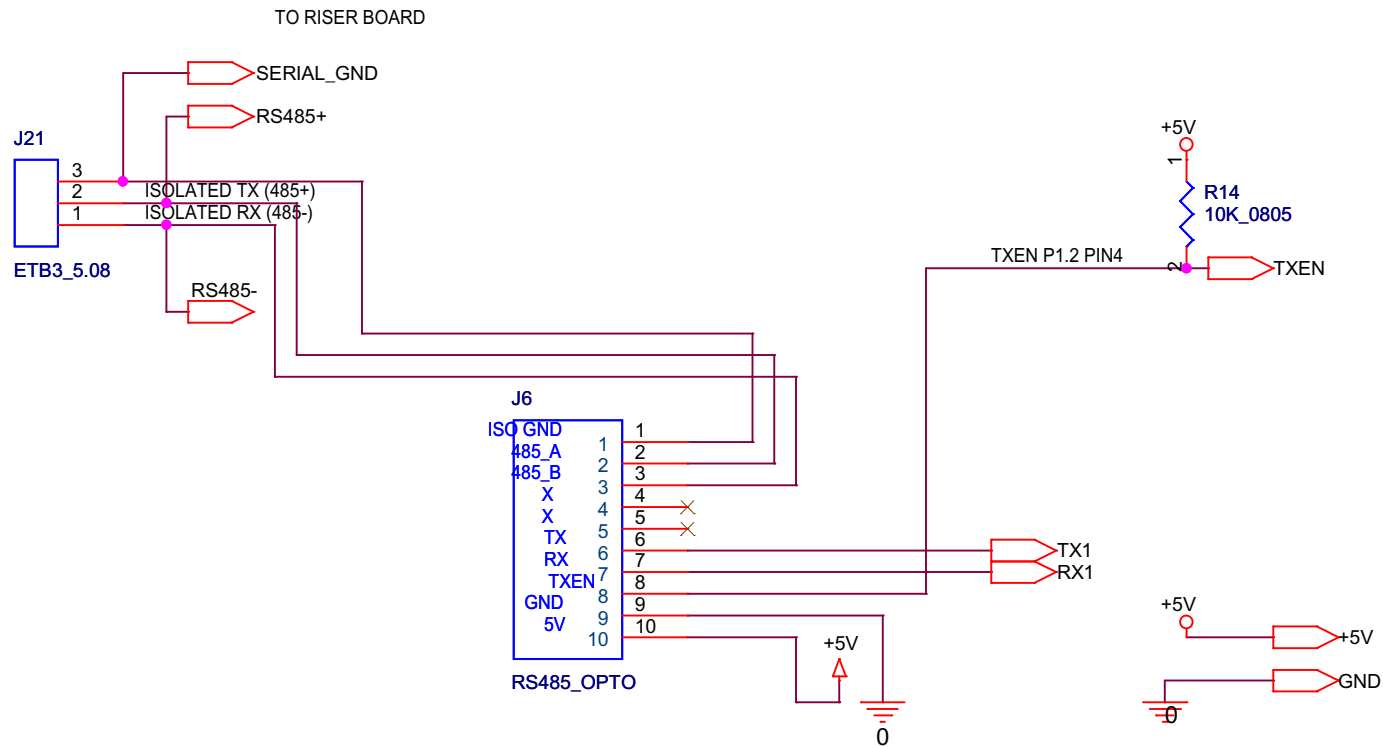
+5V
+5VReg
AGND

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Sensors		
Size B	Document Number	Rev
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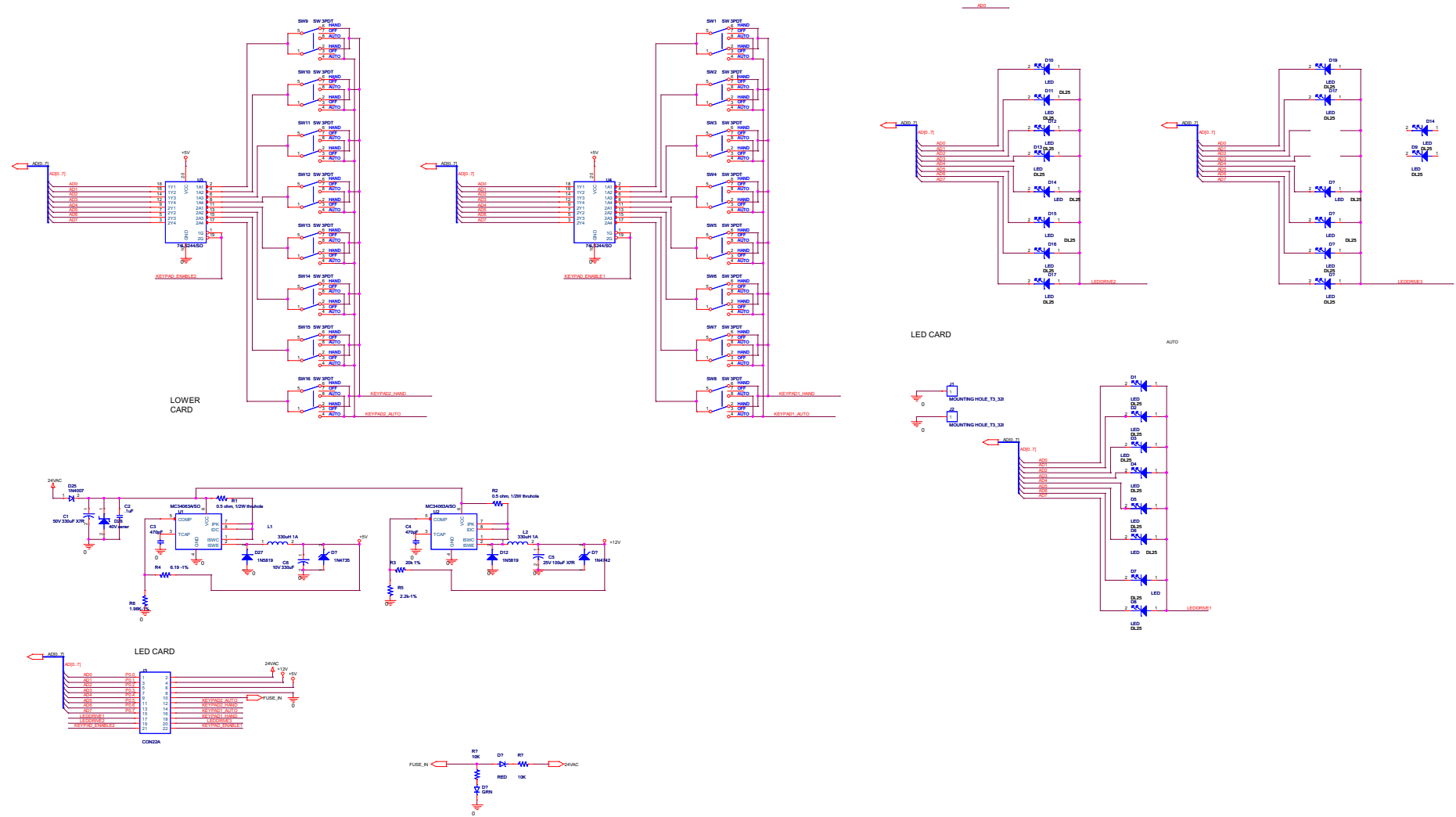
T3-8AI8AO



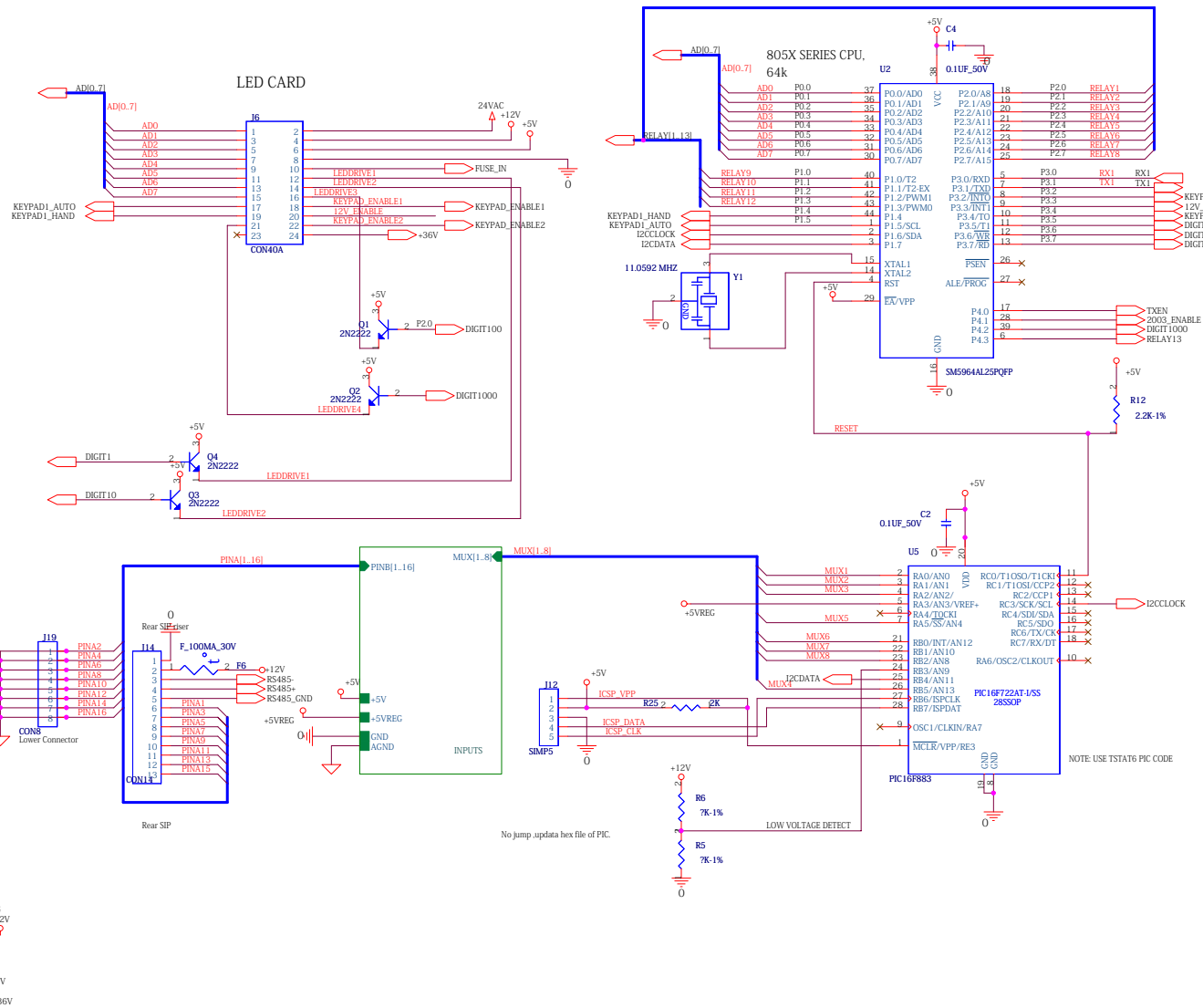
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T3-8A18AO

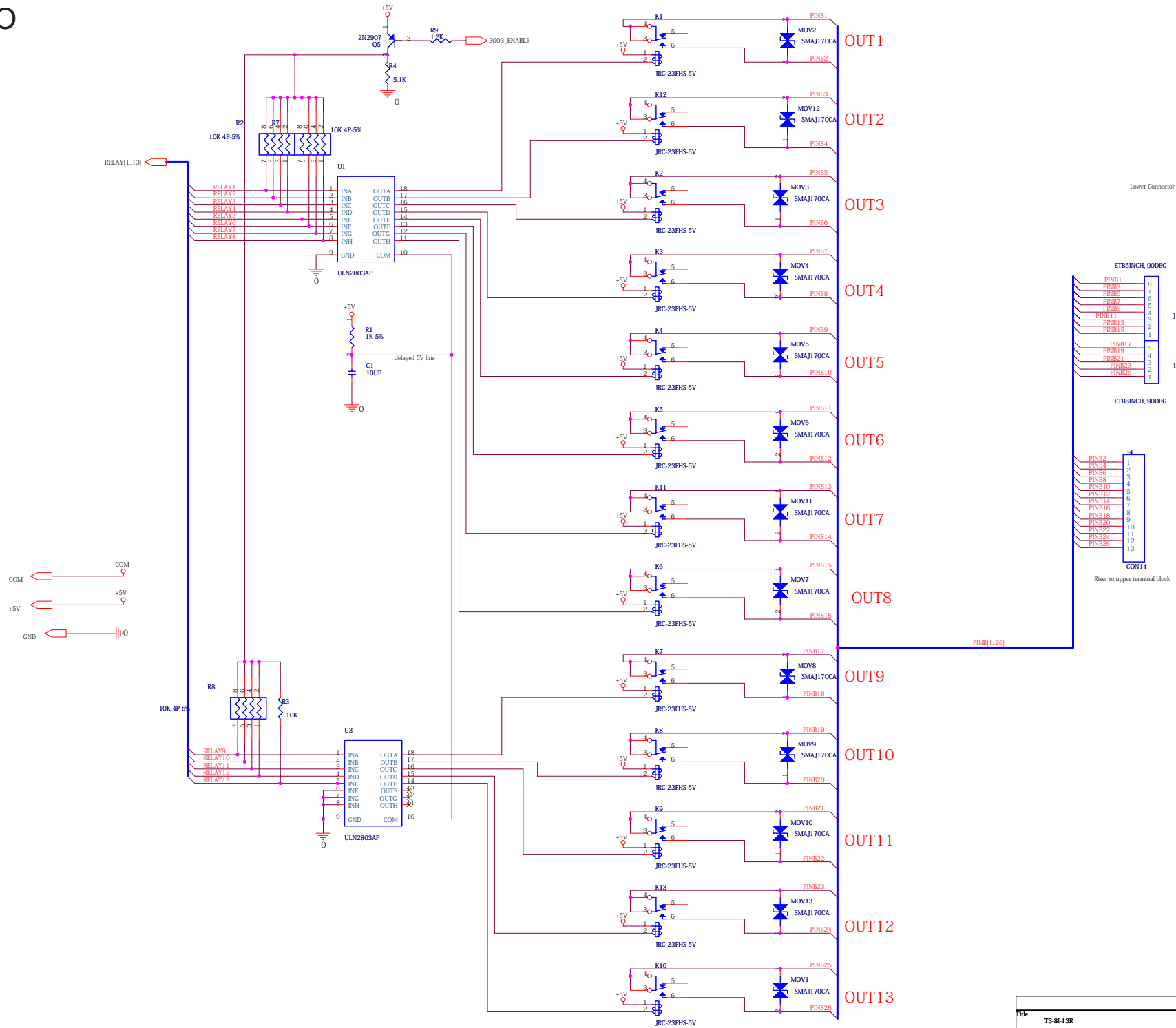


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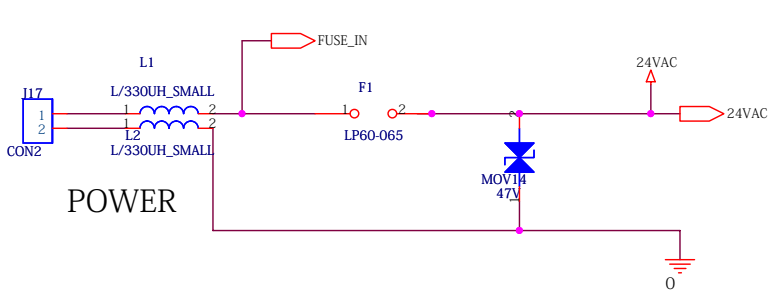


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Size	Document Number	Rev	
C	ModularBin13out	08	
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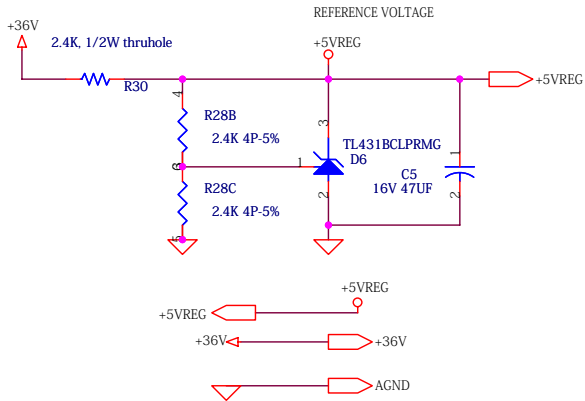
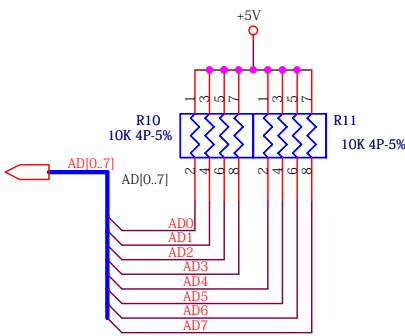
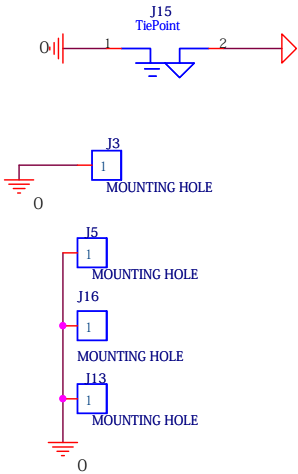
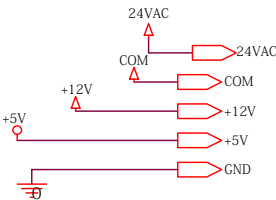
T3-8I130



POWER



Mounting Holes



Title		
T3-8I-13R		
Size	Document Number	Rev
B	POWER	08
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T3-8I13O

TBD: on analog board, all the above chanegs

TBD: isolated network gnd

TBD: change riser card header from 0.1inch to 0.2 inch

TBD: on upper board, no vias allowed under switches, add 4 holes to switch footprint

TBD: try to pass 110VAC on any pin

InOut Relay Rev4

Done: use DS2003 chip to drive relays

Done: change LM4040 to 7405

Done: move board to board header away from relays, to make room for shrouded header

Done: replaced output filter caps with TVSs

SINKING REV0

Done: Use new crystal footprint

Done: added voltage regulator to the system and added capacitor for stability

TBD: make sure all outputs are off during RS485 flash update, no relays jumping allowed

TBD: add resistor on RS485 GND line

TBD: make hardware rev visible on board while inside the enclosure

T3-8IN-16OUT REV0 (05/02/11)

Done: fix RX and TXEN lines. They were swapped.

Done: spread MOVs out a bit so they are not so crammed

Done: spread switches out just a bit so they are not so crammed

Done: verify connections to the out connector. 12 V was not done properly

Done: connect zero crossing and low voltage.

T3-8IN-16OUT REV1 (05/03/14)

Done: corrected the ground connection on the lower INPUT line

Done: correct footprint of 2803 and 273 chips

Done: update thermal relief

Done: make space for 20 pin header

T3-8IN-16OUT REV2 (05/06/02)

Done: change the VCC supply to the pic chip to 5Vreg

Done: made more space between Goal and PIC for sockets

Done: move the 12V output jumper (J2) cuz too close to output header

T3-8IN-16OUT REV3

Done: move the i2c data line, conflict with ISP

Done: shift LED board to the left

Done: high speed counter signal added to pic and CPU.

note that firmware will not be same anymore given

some pin connections had to be swapped

Done: add p-channel mosfet to driver chip

Done: out connector with REX header to be more centered

Done: in connector top header not aligned

Done: added a 12V_enable for the 2003 enable chips

note forgot to change label on silk screen... still

writes rev02

T3-8IN-16OUT REV4

Done: remove pull-up and pull-down resistor on RS485 line

Done: fix BAS40 on RS485 line

Done: add PIC for high speed analog inputs

Done: no need for 12V supply, deleted

Done: added 16 relays, 5V

Done: add the Clear line on the Latches to reduce relay startup problems.

Done: add an RC on latches to reduce relay flicker on startup

Need to experiment with values

T3-8IN-13RELAY_REV0

TBD: add terminal for 12V aux output

Done: change to larger PIC for high speed inputs

Done: delete hand_off_auto_2 pins

Done: get rid of one latch, use CPU

Done: similar hardware connections as 8out type

Done: put header to the side of the board

Done: clean up board output

T3-8IN-13RELAY_REV01

DONE:Change the part NO of the mov1_mov13

DONE: fix the part no of the mcu chip

DONE: add the pic chip programming jumper

T3-8IN-13RELAY_REV05

TBD: put notes from the last revisions

TBD: add 0-10V jumper positions if there is room

TBD: change the TVS to be MOV components for the relay side

TBD: change the rs485 chip to opto module

TBD: ~~add a 12v aux supply to the 24063 module connector~~

TBD: Change I2CLOCK to pin RC5 of PIC, conflict with ICD2

TBD: Add ISP jumper, put this jumper nearby terminal, the user does not open the enclosure to put/take this jumper.

T3-8IN-13RELAY_REV5

TBD: use rs485 module replace 485 circuit

TBD: change the input circuit make it support 40v

TBD: change to relay Zapm N4100

T3-8IN-13RELAY_REV06

DONE: change the pic to 16f882 and add vref chip.

DONE: change RS485 circuit

DONE: move the terminal a little far away, About 2.5mm

DONE: change the 12v chip LM2576 to 34063.

DONE: add the jumper for 10v voltage input .

DONE: change the pic to 16f882 and add vref chip.

T3-8IN-13RELAY_REV07

DONE: CHANGE THE PIC CHIP TO 16F882

DONE: ADD THE INPUT TYPE . 0-5V. 0-10V. 4- 20MA

DONE : The sm5964 schematic footprint is copy from the rev 5 ,but it is not correct . Correct it

T3-8IN-13RELAY_REV08

DONE: change the 5VRef to match mini panel

DONE: change the input resistors from 1k to 10k, MATCH TSTAT6

DONE: CHECK ALL SCREW TERMINALS WITH 24VAC ON REV7 BEFORE MAKING REV8

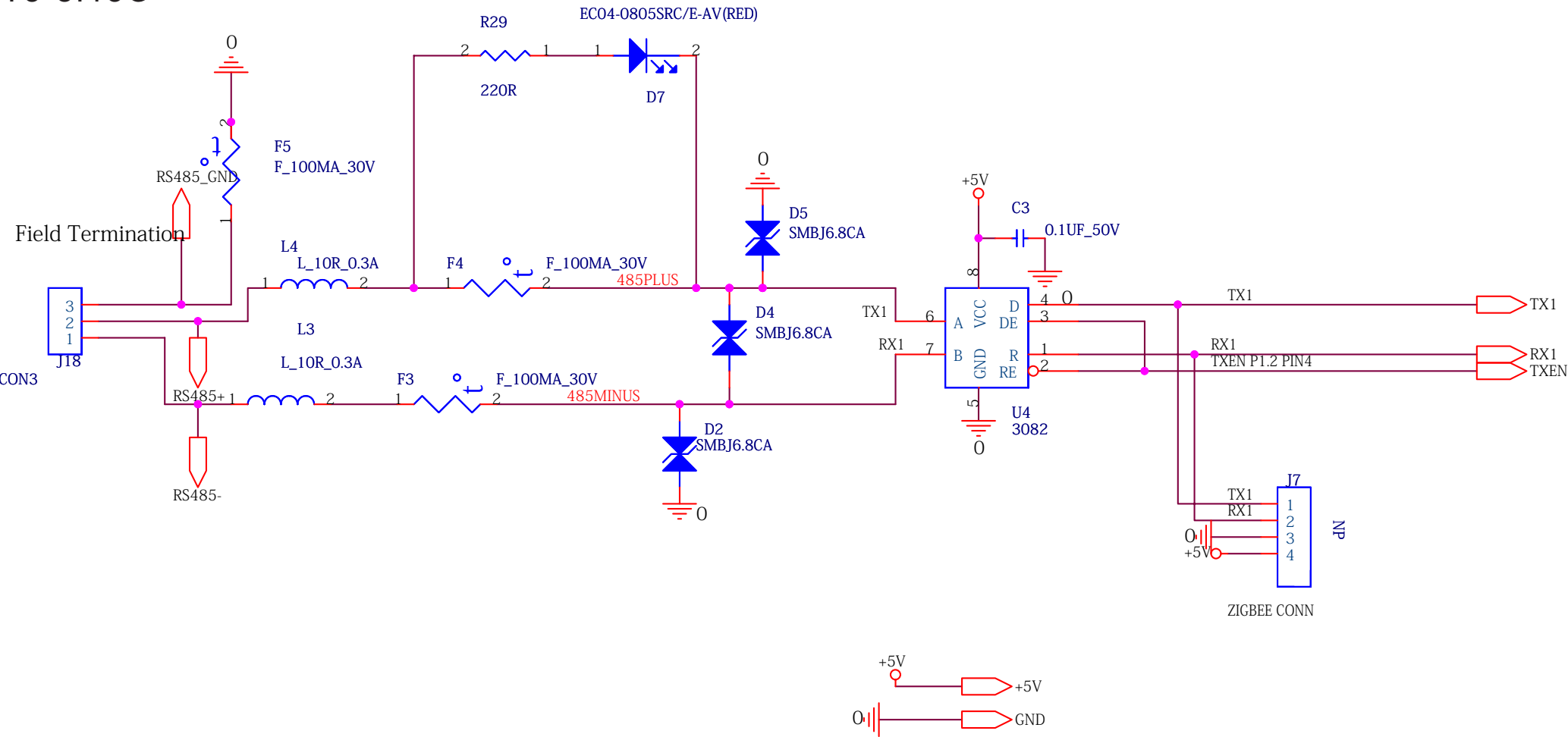
DONE: change this to fuse symbol, not R, update bom, SAME PART# AS TSTAT6

DONE: need to add zigbee header

DONE: J6 PIN24 ADD +36V FOR +5VREG INPUT .

DONE: Add RS485 LED .

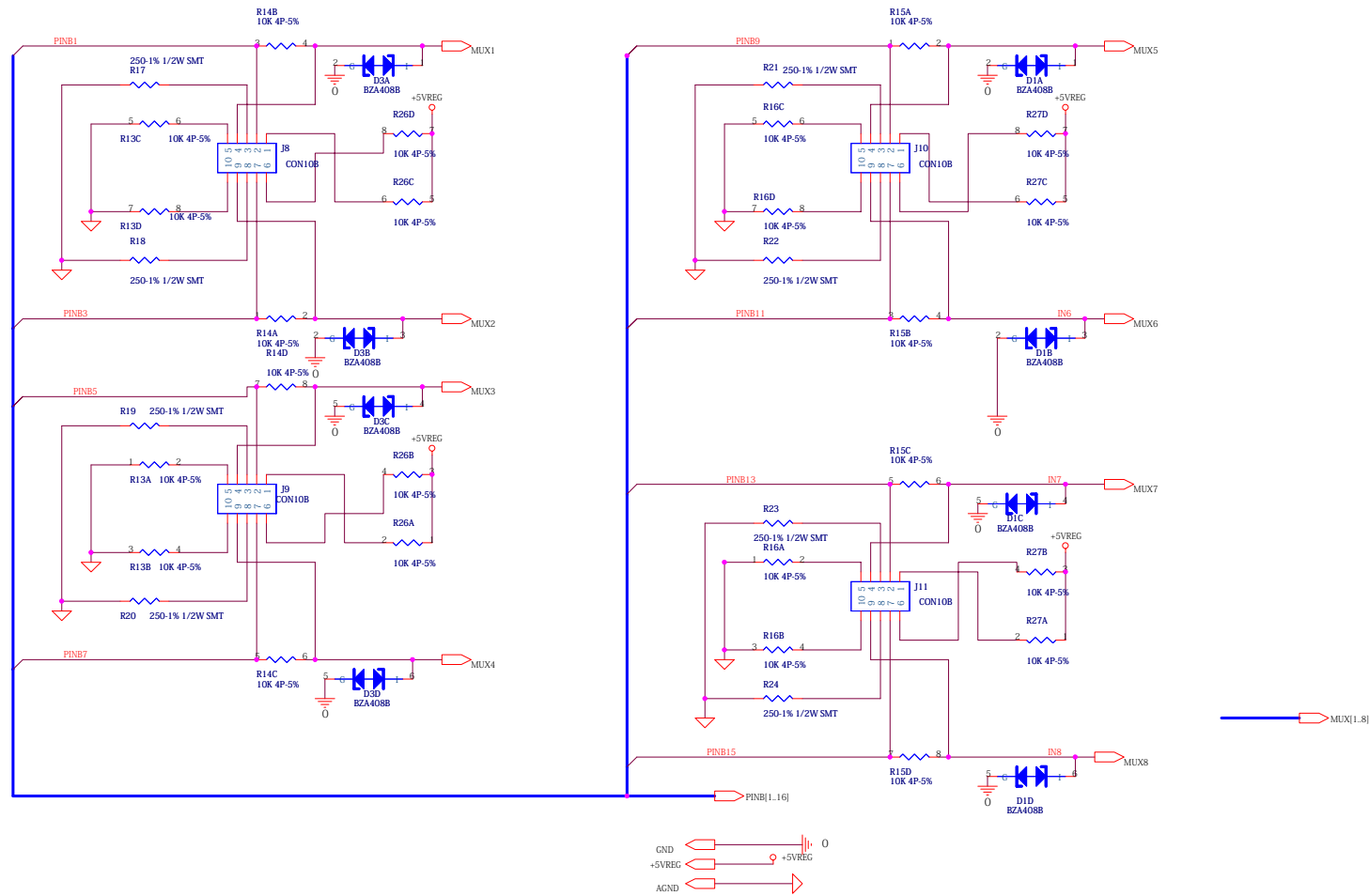
T3-8I13O



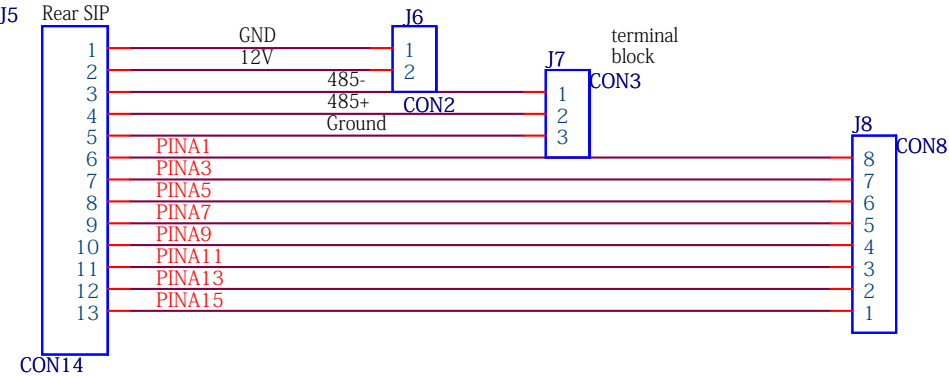
Title		
T3-8I-13R		
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T3-8I130

TBD: change the input resistors from 1k to 10k



T3-8I13O



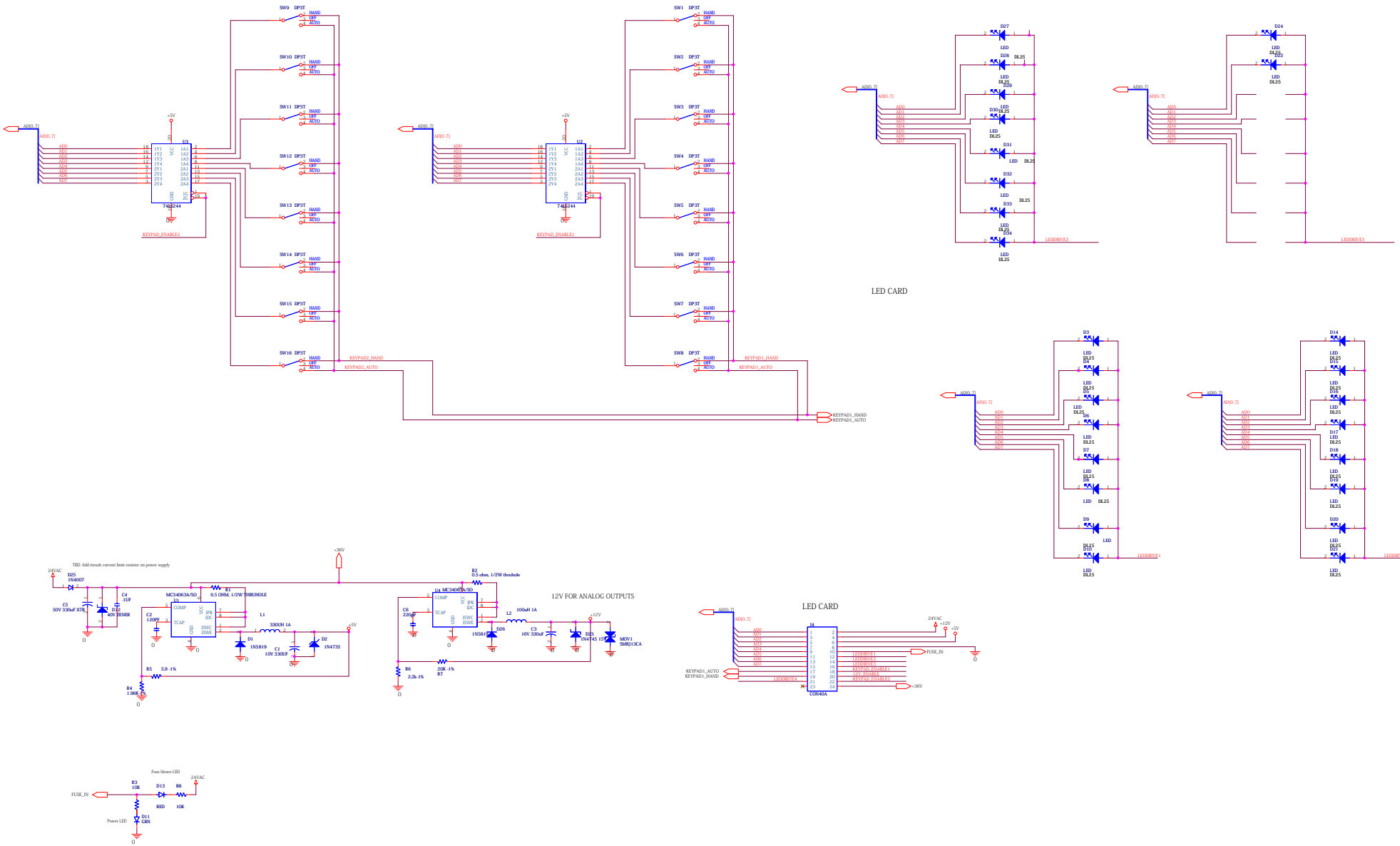
Calcuated spacing for upper connector = 0.621"

Jus use sip haeders as Amang has, try them out

Rev9: added header for RS485 connector

	TEMCO CONTROLS LTD. 1027 WEST 7TH AVE VANCOUVER BC, V6H 1B2 TEL: (604) 438 - 8294 FAX: (604) 438 - 9313		
	T3000 OUTPUT CARD		
	Size A	CAGE Code <Cage Code>	DWG NO <div></div>
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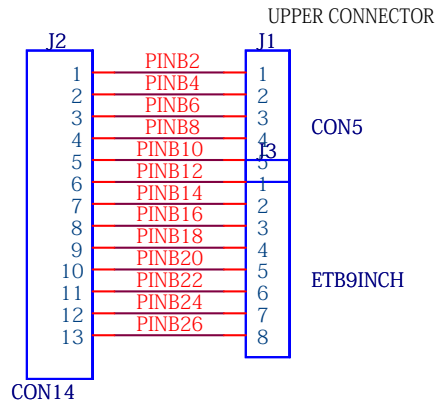
T3-8I130



T3-8I130 OUTPUT CARD			
T3-8I130 OUTPUT CARD			
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T3-8I13O

Riser from lower board



		TEMCO CONTROLS LTD. 1555 Caobao Rd Shanghai China, 201101 TEL: FAX: (604) 438 - 9313			
		16 RELAY OUTPUT CARD			
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T3-81130

Rev01

- Done: tie enable pin of 12V supply to the cpu
- Done: change LED to square ones for all of them

Rev02

- Done: corrected U2 and U3 footprint. used to be too large
- Done: D29 footprint needed to do wider (copy D10 & D11)
- Done: make space for 20pin header
- Done: the 12V supply footprint has been changed, GND added for heat transfer

16 RELAY VERSION, Rev00

- Copied from 16 sinking output version
- Done: move around header connections to be the same as 8 relay versions
- Done: get rid of spare header for Rex's output type
- Done: get rid of spare header for Rex's output type

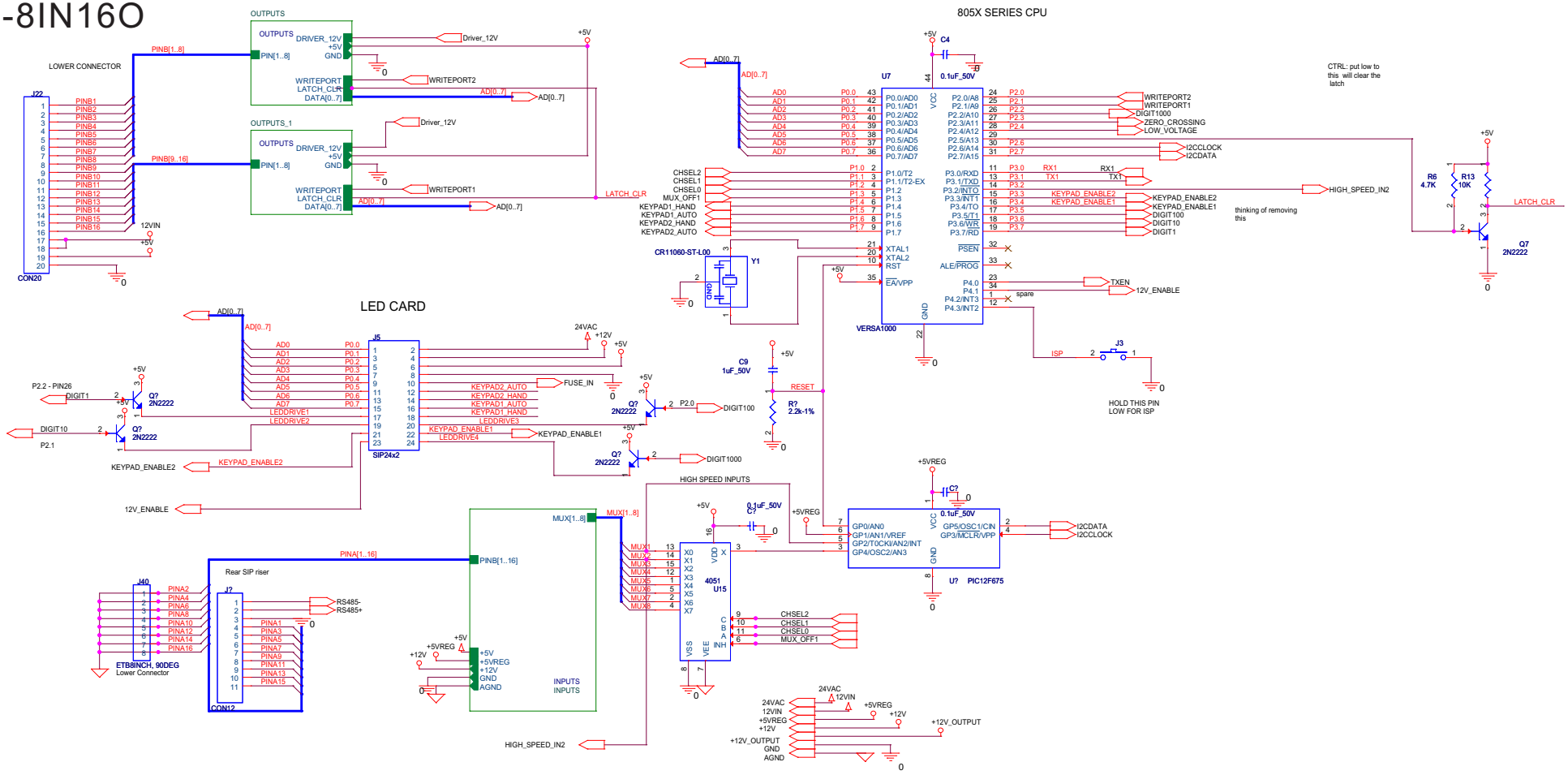
Rev07

- TBD: change the silkscreen for jumper to big
- TBD: change the footprint for dam-board
- TBD: change the R15 footprint For bot board

Rev08

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T3-8IN16O



T3-8IN-16O

note given output relays, cannot put AC power

TBD: on analog board, all the above chanegs

TBD: isolated network gnd

TBD: change riser card header from 0.1inch to 0.2 i nch

TBD: on upper board, no vias allowed under switches , add 4 holes to switch footprint

TBD: try to pass 110VAC on any pin

InOut Relay Rev4

Done: use DS2003 chip to drive relays

Done: change LM4040 to 7405

Done: move board to board header away from relays, to make room for shrouded header

Done: replaced output filter caps with TVSs

SINKING REV0

Done: Use new crystal footprint

Done: added voltage regulator to the system and add ed capacitor for stability

TBD: make sure all outputs are off during RS485 fla sh update, no relays jumping allowed

TBD: add resistor on RS485 GND line

TBD: make hardware rev visible on board while insid e the enclosure

T3-8IN-16OUT REV0 (05/02/11)

Done: fix RX and TXEN lines. They were swapped.

Done: spread MOVs out a bit so they are not so cram med

Done: spread switches out just a bit so they are no t so cramped

Done: verify connections to the out connector. 12 V was not done properly

Done: connect zero crossing and low voltage.

T3-8IN-16OUT REV1 (05/03/14)

Done: corrected the ground connection on the lower INPUT line

Done: correct footprint of 2803 and 273 chips

Done: update thermal relief

Done: make space for 20 pin header

T3-8IN-16OUT REV2 (05/06/02)

Done: change the VCC supply to the pic chip to 5Vre g

Done: made more space between Goal and PIC for sock ets

Done: move the 12V output jumper (J2) cuz too close to output header

T3-8IN-16OUT REV3

Done: move the i2c data line, conflict with ISP

Done: shift LED board to the left

Done: high speed counter signal added to pic and CP U.

note that firmware will not be same anymore given s ome pin connections had to be swapped

Done: add p-channel mosfet to driver chip

Done: out connector with REX header to be more cent ered

Done: in connector top header not alligned

Done: added a 12V_enable for the 2003 enable chips

note forgot to change label on silk screen... still writes rev02

T3-8IN-16OUT REV4

Done: add the Clear line on the Latches before driv er chip (avoids flickers)

Done: remove pull-up and pull-down resistor on RS485 line

Done: remove current limiting resistor on RS485 li ne

Done: fix BAS40 on RS485 line

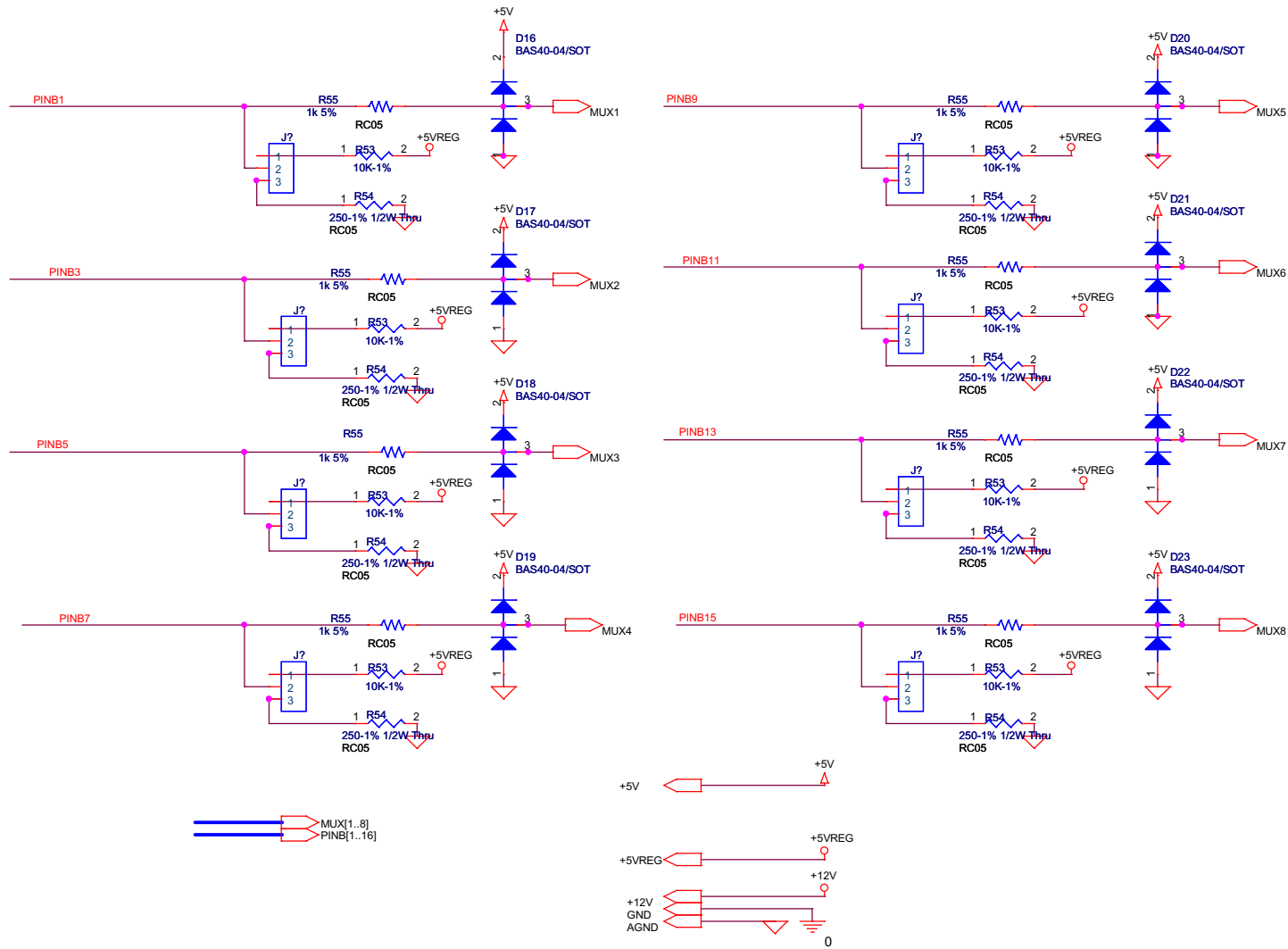
DONE: Add a transistor to invert the CLR line of 7 4HC273 to reduce flicker on startup of UL2803 outpu ts

TBD: HIGH SPEED input wire need to be cut.

TBD: TXEN is not connected on PCB

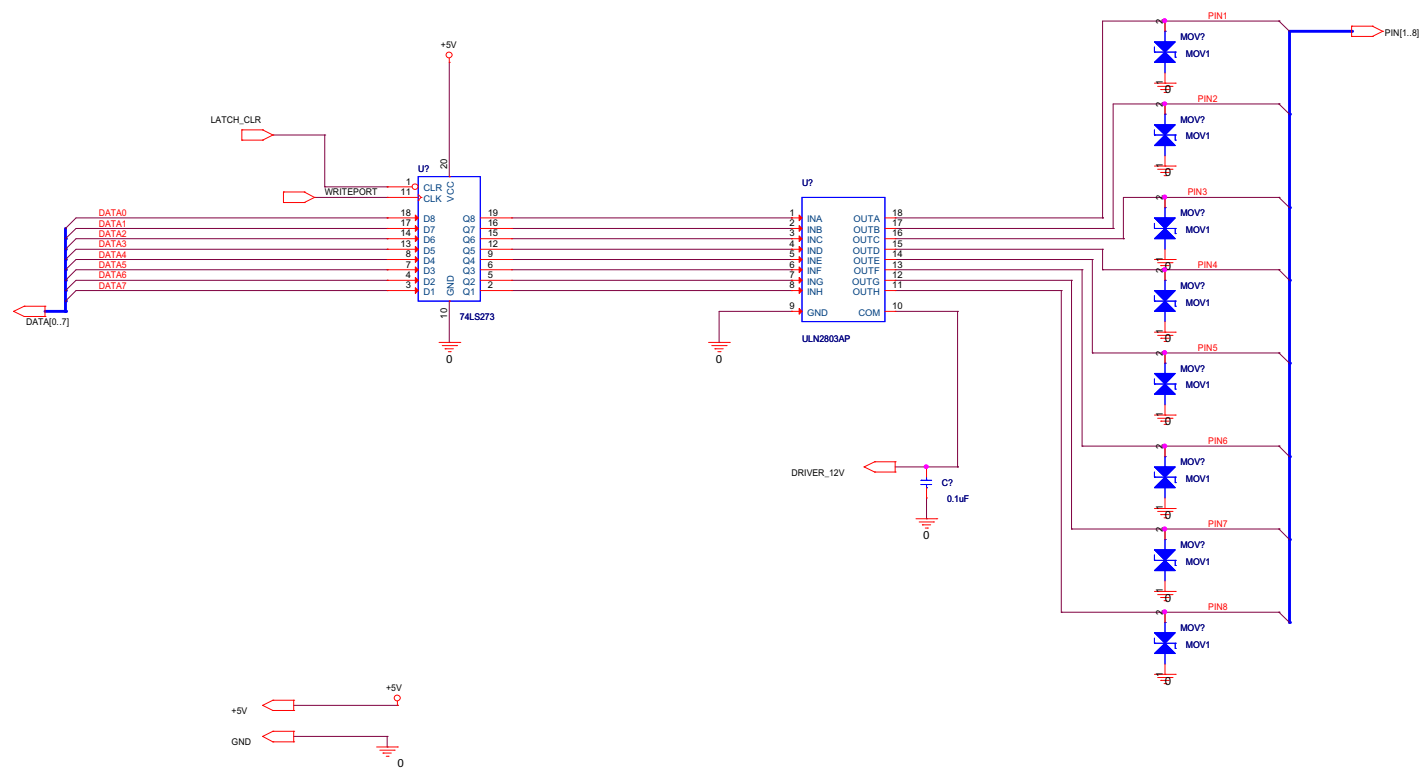
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T3-8IN16O



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Sensors		
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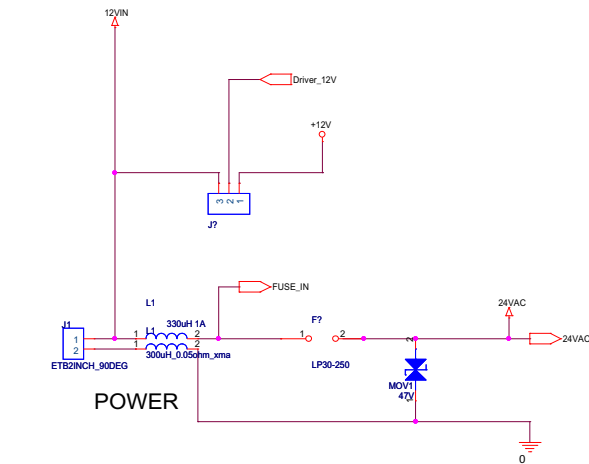
T3-8IN16O



T3-8IN16O

POWER

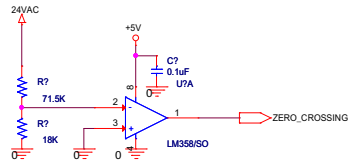
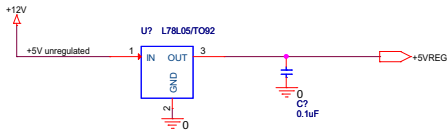
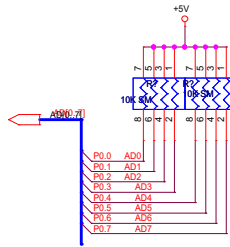
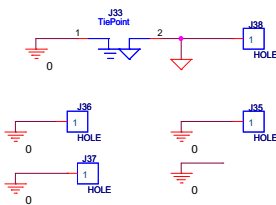
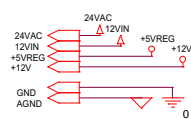
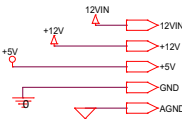
12 Vin: comes in through the Out_Connector side
+12 V: comes from the LEDboard 12V supply
+12 V_output: goes to the driver chips



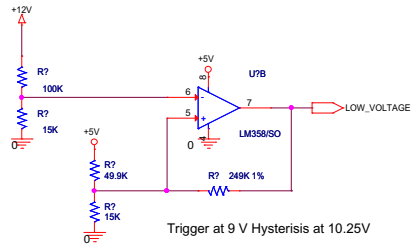
POWER

Mounting Holes

- MH6 Screw Hole
- MH3 Screw Hole
- MH7 Screw Hole



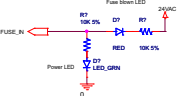
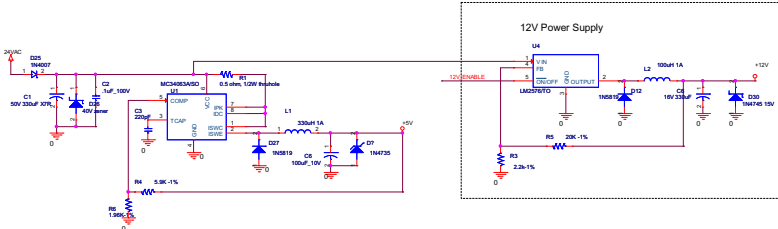
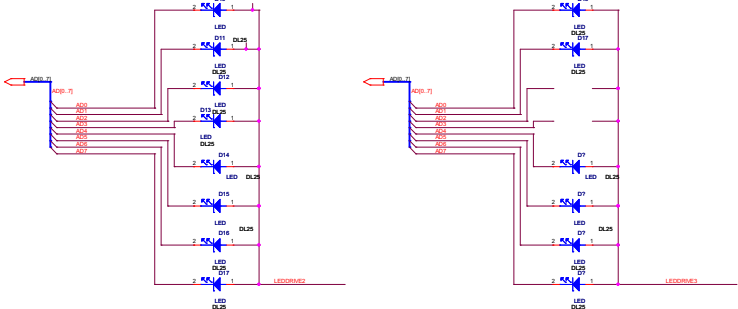
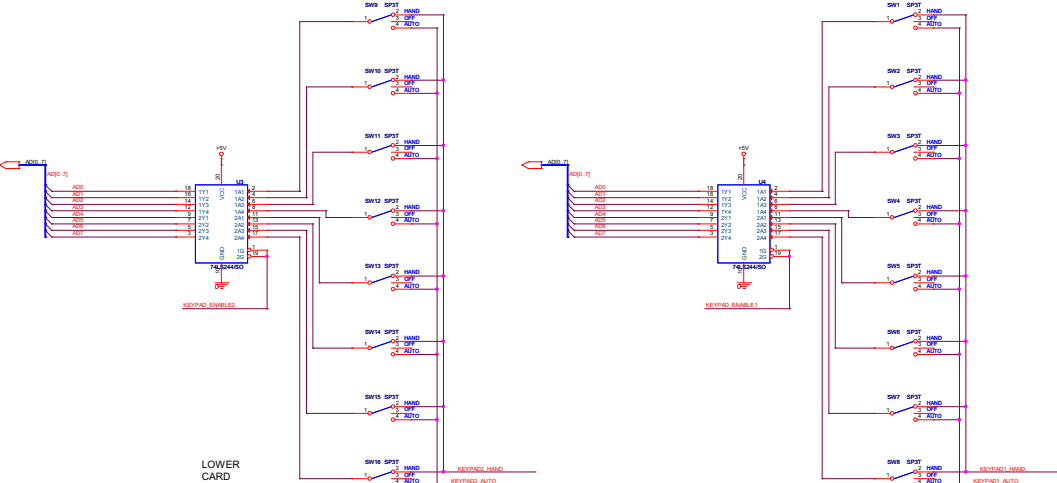
Trigger at 0 V (ac powered applications only)



Trigger at 9 V Hysteresis at 10.25V

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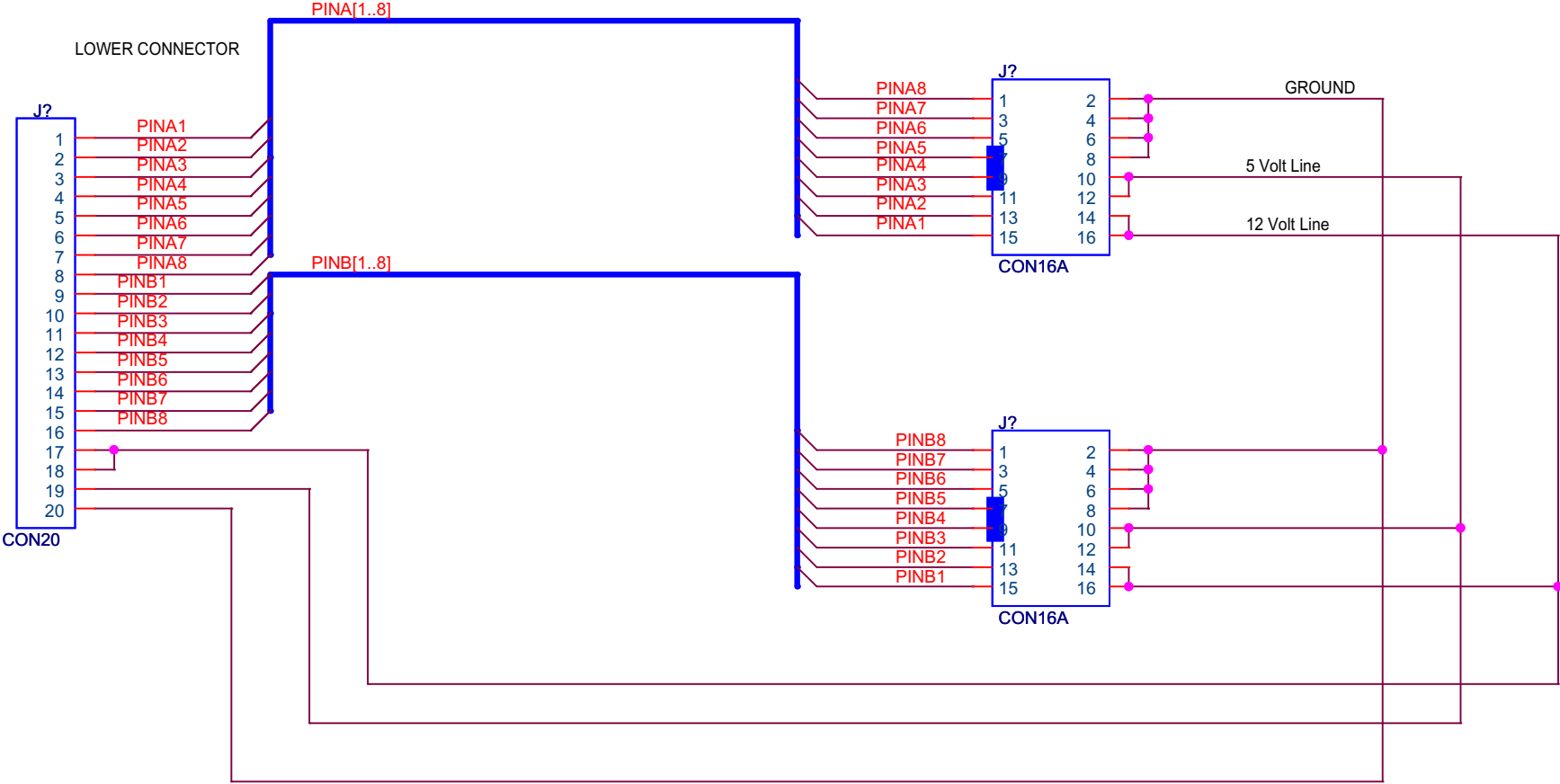
T3-8IN16O



YEMO CONCEPTS LTD. 1037 WEST 7TH AVE VANCOUVER, BC V6H 1B2 TEL: 604-681-8888 FAX: 604-681-8813			
T3800 OUTPUT CARD			
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T3-8IN16O



Calculated spacing for upper connector = 0.621"
Jus use sip haeders as Amang has, try them out
Rev9: added header for RS485 connector

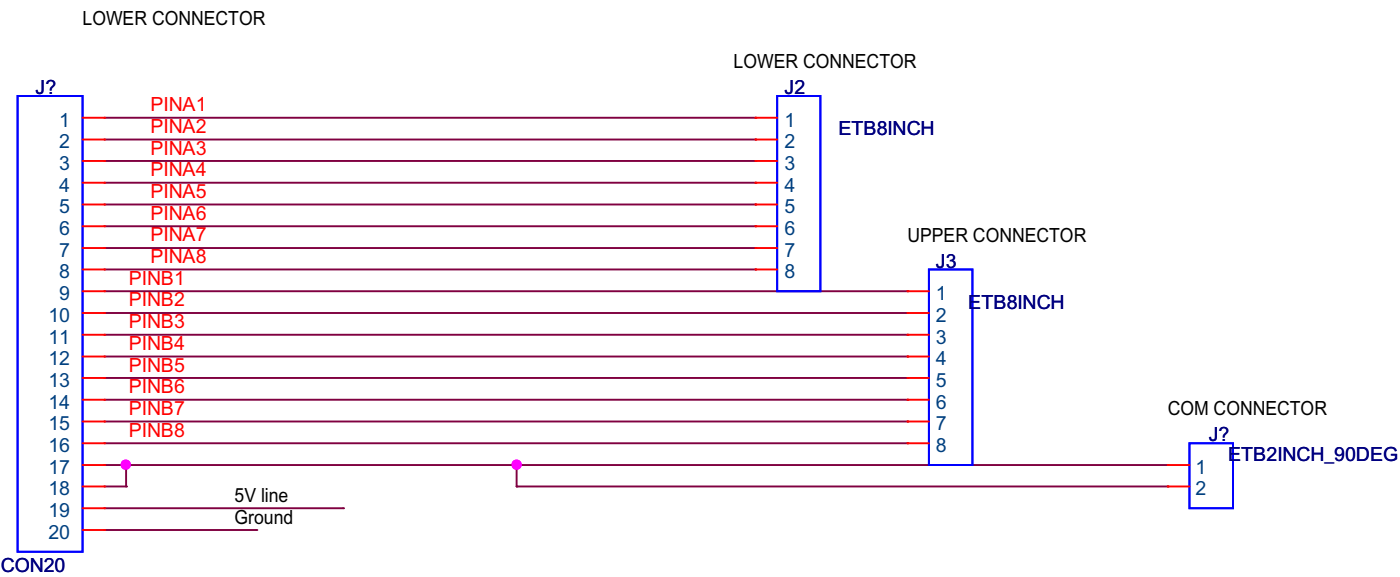
TEMCO CONTROLS LTD.
1027 WEST 7TH AVE
VANCOUVER BC, V6H 1B2
TEL: (604) 438 - 8294
FAX: (604) 438 - 9313

T3000 OUTPUT CARD

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T3-8IN16O



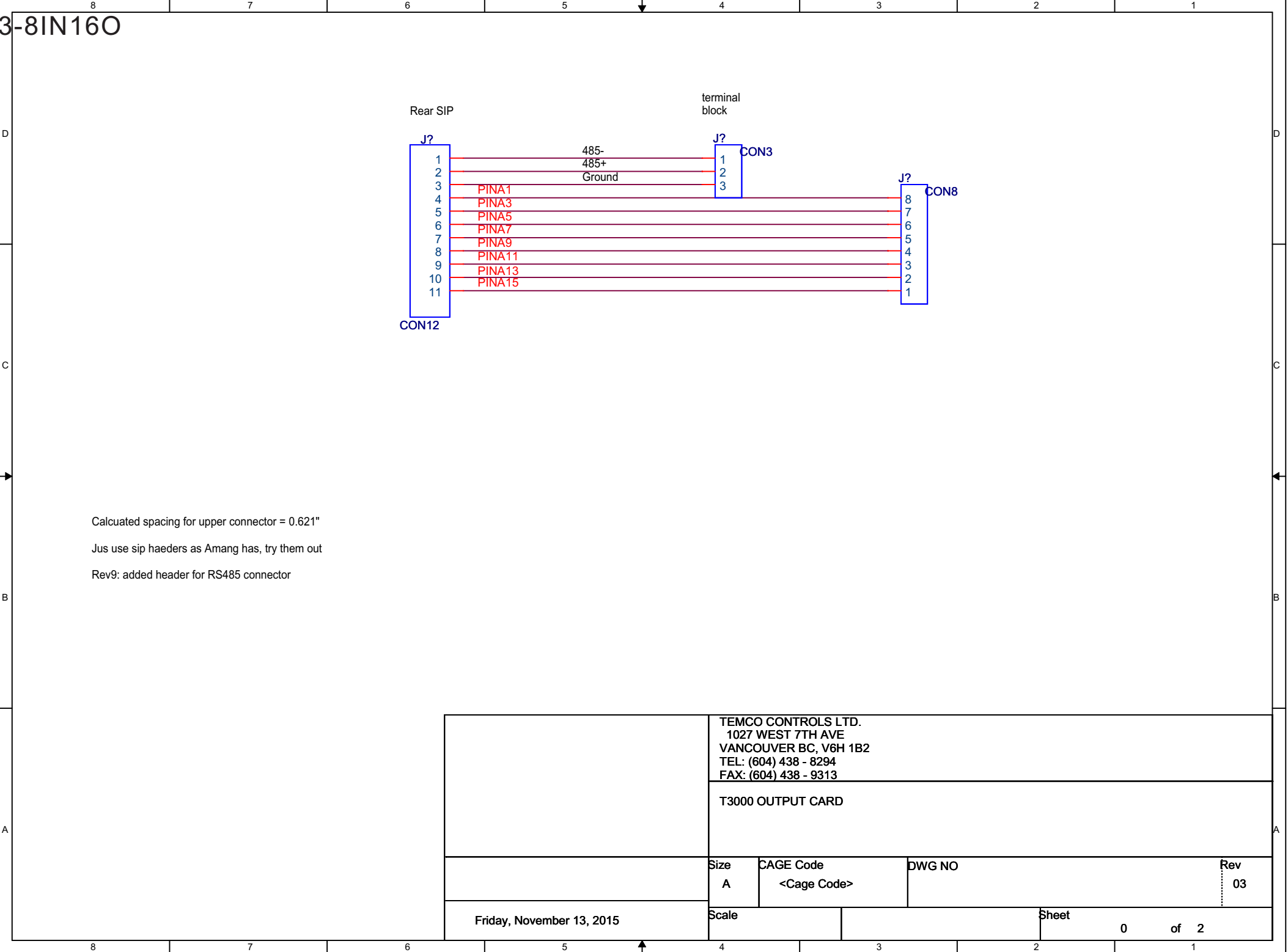
Calculated spacing for upper connector = 0.621"

Jus use sip haeders as Amang has, try them out

Rev9: added header for RS485 connector

		TEMCO CONTROLS LTD. 1027 WEST 7TH AVE VANCOUVER BC, V6H 1B2 TEL: (604) 438 - 8294 FAX: (604) 438 - 9313		
		T3000 OUTPUT CARD		
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T3-8IN16O



Calcuated spacing for upper connector = 0.621"

Jus use sip haeders as Amang has, try them out

Rev9: added header for RS485 connector

	TEMCO CONTROLS LTD. 1027 WEST 7TH AVE VANCOUVER BC, V6H 1B2 TEL: (604) 438 - 8294 FAX: (604) 438 - 9313		
	T3000 OUTPUT CARD		
	Size A	CAGE Code <Cage Code>	DWG NO Rev 03
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T3-8IN16O

Rev01

- Done: tie enable pin of 12V supply to the cpu
- Done: change LED to square ones for all of them

Rev02

- Done: corrected U2 and U3 footprint. used to be toolarge
- Done: D29 footprint needed to do wider (copy D10 &D11)
- Done: make space for 20pin header
- Done: the 12V supply footprint has been changed, GND added for heat transfer

TBD: need a bigger schottkey to match the power chip

Rev03

NO NOTES AVAILABLE

Rev04

Copied Rev03, No changes

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<Title>		
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