

1234567891011121314

UNFINISHED

PCB NOTE:  
All nets that start with KS are "Keep Short" nets. They are grouped at the top of the netlist.  
PCB5

PCB NOTE:  
All connector silkscreen RefDes must be 3mm high on both sides of the board where possible.  
PCB6

Custom attributes:  
fill in different build attributes

FID1  
Fiducial,40mil,Top/Bot side

FID2  
Fiducial,40mil,Top/Bot side

FID3  
Fiducial,40mil,Top/Bot side

MH1  
none

MH2  
none

MH3  
none

MH4  
none

Last Used Devices:  
C7  
D4  
FID3  
FIL1  
J3  
MH4  
P4  
PCB7  
R21  
SW3

Unused Units:  
none

Assembly Step 1  
&AssemblyStep1

Assembly Step 2  
&AssemblyStep2

Assembly Step 3  
&AssemblyStep3

Assembly Step 4  
&AssemblyStep4

Assembly Step 5  
&AssemblyStep5

Assembly Step 6  
&AssemblyStep6

Top Side Documentation

Silkscreen: Top

Printed Circuit Board: Part Number???

In Copper:

Printed circuit board, FR4, 0.0625 thick, 4 Layer

Bottom Side Documentation

PCB7 Silkscreen: Bottom

Silkscreen: Made in U.S.A.

Silkscreen: Copyright © 2014 by Robert S. Rau

PCB Layout Notes:  
1) Comment fields in the netlist for connectors should be put on the silkscreen.  
2) Component and solder side must have a ≥0.030" trace around the perimeter connected to GndIsolated (Mounting Holes). This trace must NOT be covered with solder mask or silkscreen.

PCB Fabrication Notes:  
1) Each board in the panel must have a unique number, in copper, to track which part of the panel each board came from.  
2) The solder mask must be green.  
3) Solder side silkscreen must be yellow.  
4) Component side silkscreen must be white.

Designer: Robert Rau  
Parts Cost: &CostTotal  
At a quantity of: 1000  
Cost of Assembly: &CostTotalAsy  
Operating temperature range: 0° C to 70°C &NoteTempWavr  
Net List File Name: Sled.txt with errors  
Package count component side: &CntDevComp  
Package count solder side: &CntDevSolder  
Error Count: &ErrorCntDesign  
Warning Count: &WarnCntDesign

Component Hole Count: &CntHoles  
SMT pad Count: &CntSMTpads  
Board width: 50 mm  
Board length: 100 mm

Component side area used is &AreaCompUsedmm2 mm^2, or &AreaCompUsedPct% of &AreaCompmm2 mm^2  
Solder side area used is &AreaSoldUsedmm2 mm^2, or &AreaSoldUsedPct% of &AreaSoldmm2 mm^2

File: Sled.cct  
Created: 4/1/2015 7:32 AM  
Printed: 4/4/2015 10:40 AM

Design Revision: 1.0

Drawing Revision: A

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TITLE: Telemega Sled

Document Number: ????

Date: Modified: 4/4/2015 10:33 AM

Rev: 1.0

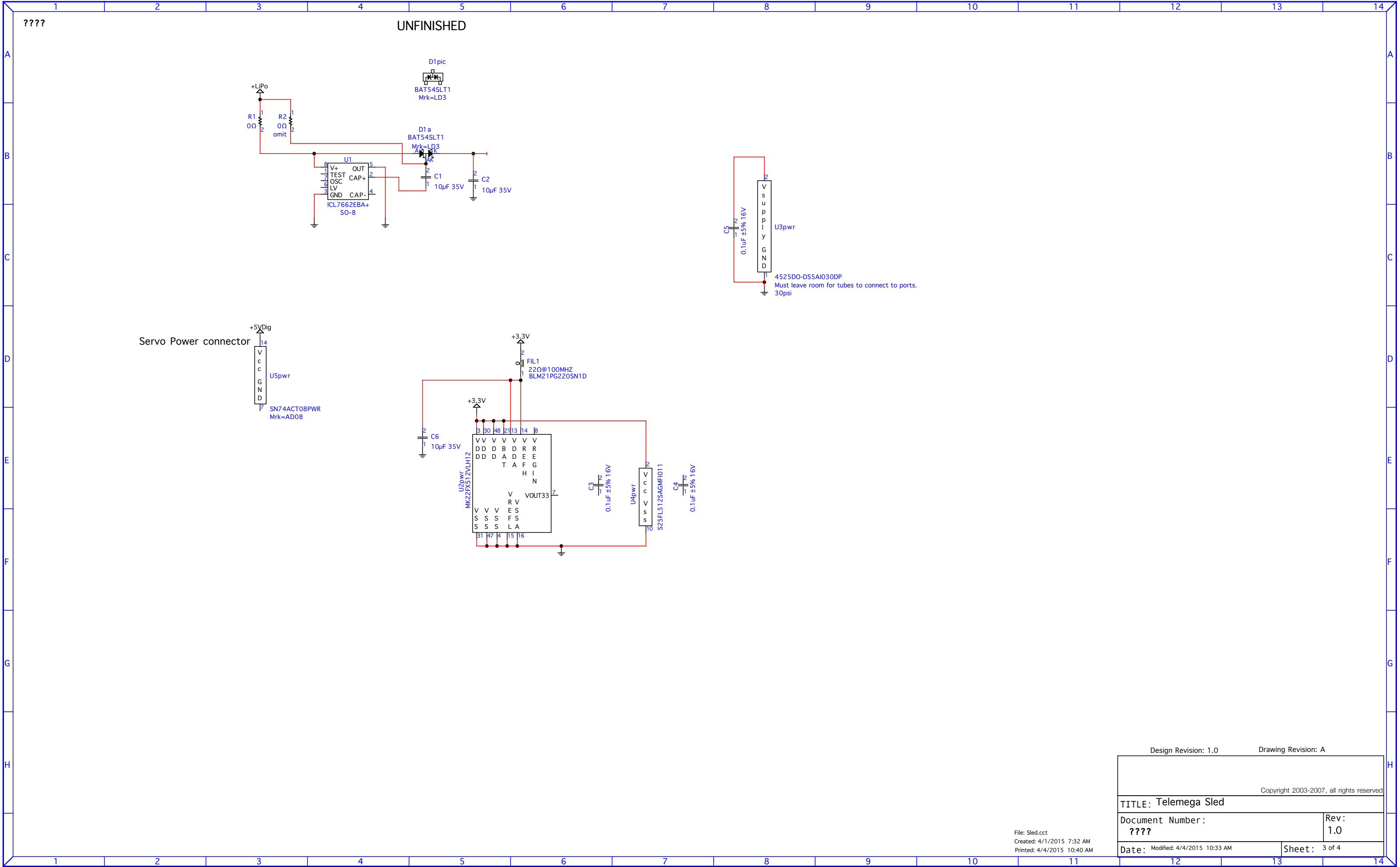
Sheet: 1 of 4

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|      |            |   |   |   |   |   |   |   |    |    |    |    |    |
|------|------------|---|---|---|---|---|---|---|----|----|----|----|----|
| 1    | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| ???? | UNFINISHED |   |   |   |   |   |   |   |    |    |    |    |    |
| A    |            |   |   |   |   |   |   |   |    |    |    |    | A  |
| B    |            |   |   |   |   |   |   |   |    |    |    |    | B  |
| C    |            |   |   |   |   |   |   |   |    |    |    |    | C  |
| D    |            |   |   |   |   |   |   |   |    |    |    |    | D  |
| E    |            |   |   |   |   |   |   |   |    |    |    |    | E  |
| F    |            |   |   |   |   |   |   |   |    |    |    |    | F  |
| G    |            |   |   |   |   |   |   |   |    |    |    |    | G  |
| H    |            |   |   |   |   |   |   |   |    |    |    |    | H  |
| 1    | 2          | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

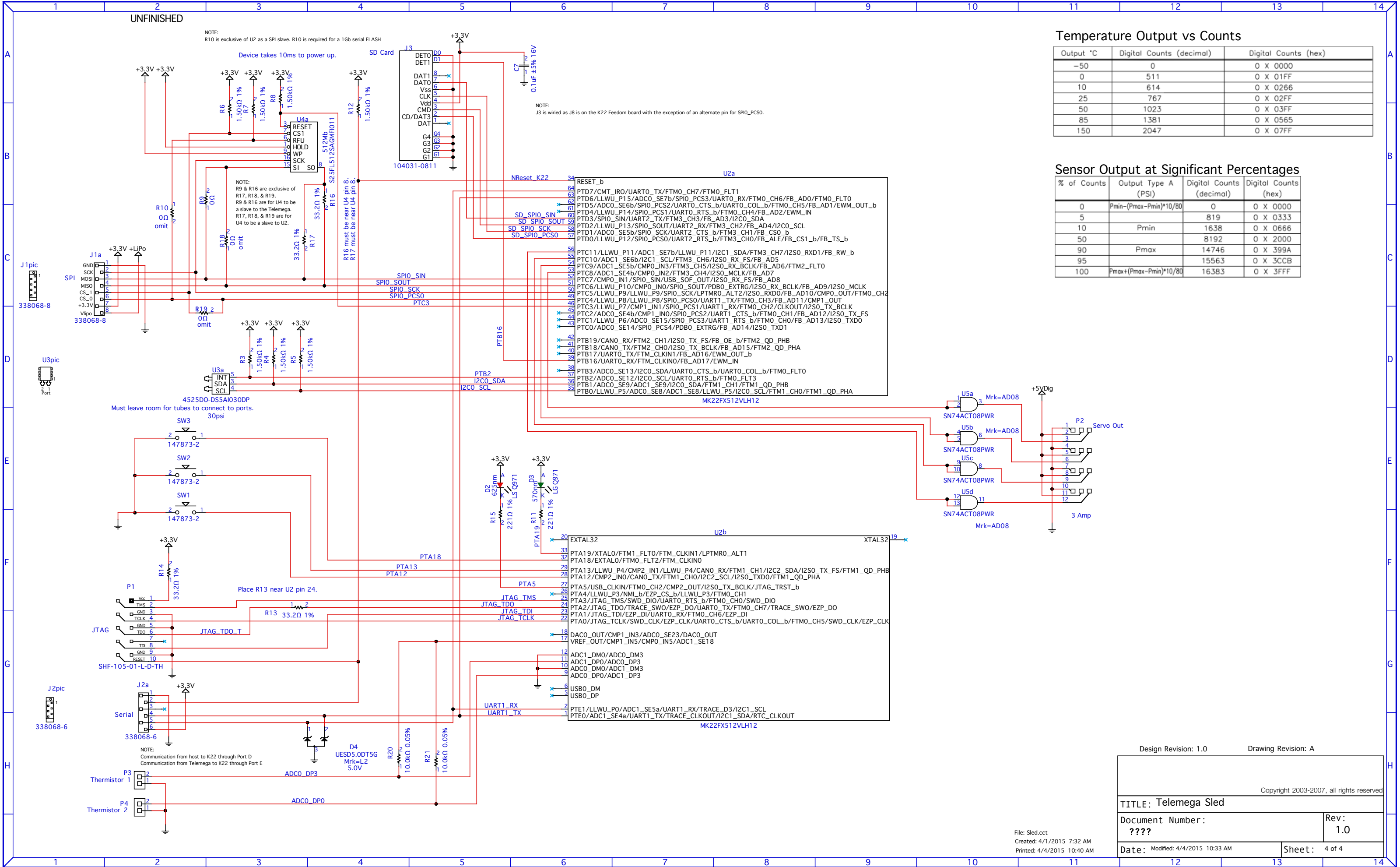
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|  |  |                     |             |
|--|--|---------------------|-------------|
| Design Revision: 1.0                     |  | Drawing Revision: A |             |
|  |  |                     |             |
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| Document Number:<br>????                 |  |                     | Rev:<br>1.0 |
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|  |                             |                     |               |
|--|-----------------------------|---------------------|---------------|
| Design Revision: 1.0                     |                             | Drawing Revision: A |               |
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| Date:                                    | Modified: 4/4/2015 10:33 AM |                     | Sheet: 3 of 4 |



Temperature Output vs Counts

| Output °C | Digital Counts (decimal) | Digital Counts (hex) |
|-----------|--------------------------|----------------------|
| -50       | 0                        | 0 X 0000             |
| 0         | 511                      | 0 X 01FF             |
| 10        | 614                      | 0 X 0266             |
| 25        | 767                      | 0 X 02FF             |
| 50        | 1023                     | 0 X 03FF             |
| 85        | 1381                     | 0 X 0565             |
| 150       | 2047                     | 0 X 07FF             |

Sensor Output at Significant Percentages

| % of Counts | Output Type A (PSI)                       | Digital Counts (decimal) | Digital Counts (hex) |
|-------------|---|--------------------------|----------------------|
| 0           | $P_{min} - (P_{max} - P_{min}) * 10 / 80$ | 0                        | 0 X 0000             |
| 5           |   | 819                      | 0 X 0333             |
| 10          | $P_{min}$                                 | 1638                     | 0 X 0666             |
| 50          |   | 8192                     | 0 X 2000             |
| 90          | $P_{max}$                                 | 14746                    | 0 X 399A             |
| 95          |   | 15563                    | 0 X 3CCB             |
| 100         | $P_{max} + (P_{max} - P_{min}) * 10 / 80$ | 16383                    | 0 X 3FFF             |

Design Revision: 1.0 Drawing Revision: A

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|                                   |               |
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