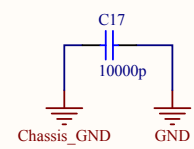
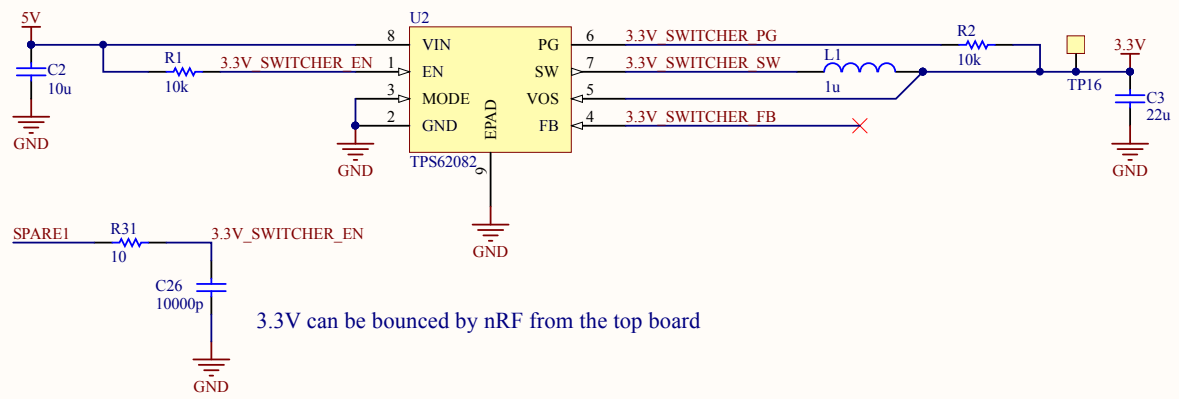


connection through ESD creepage zone

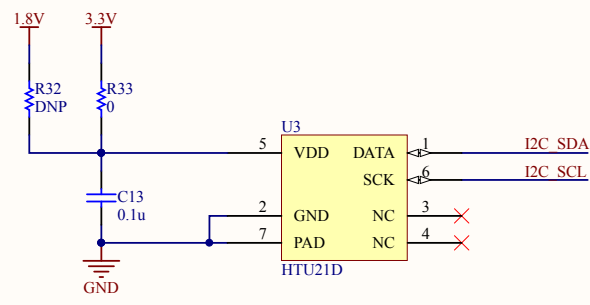


ESD protection

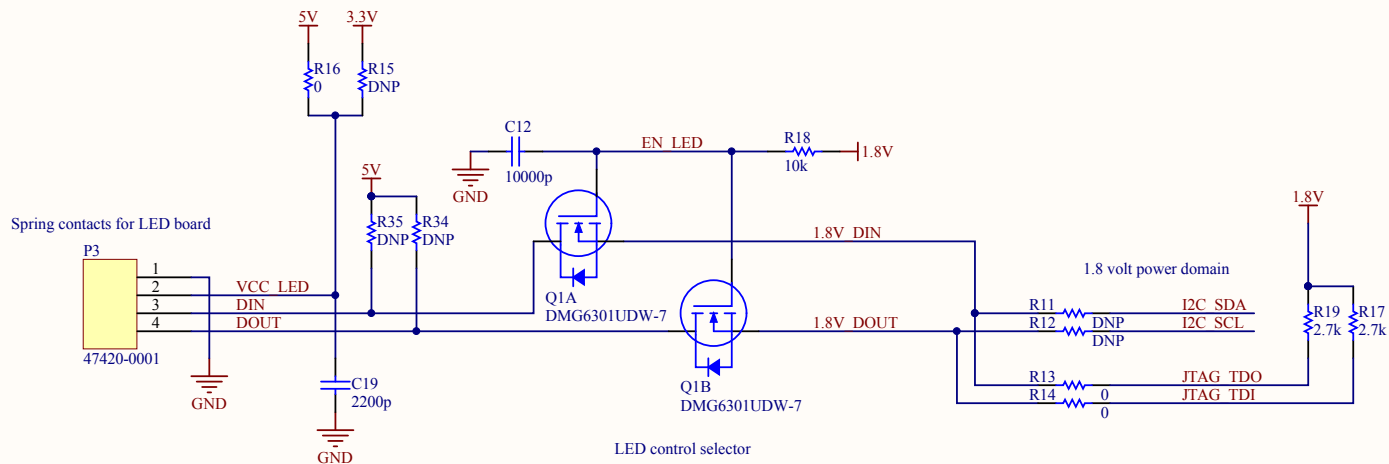


3.3V can be bounced by nRF from the top board

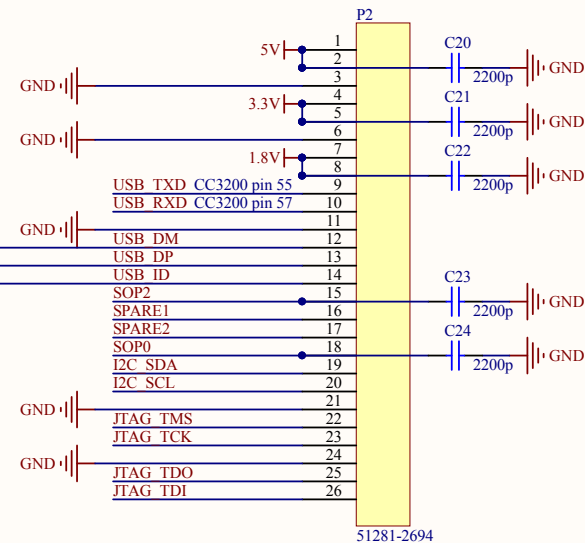
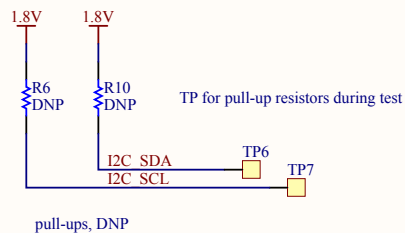
Hello	
TITLE Power management	REV DVT
DATE 10/30/2014	DRAWN BY D. Fusi
SHEET 1 OF 3	



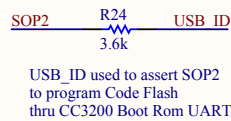
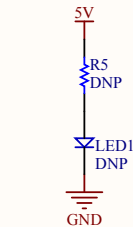
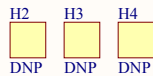
Hello		
TITLE Temperature / Humidity		REV DVT
DATE 10/29/2014	DRAWN BY D. Fusi	SHEET 2 OF 3



connector to the middle board

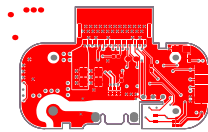


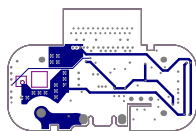
mounting holes. H1 has been replaced with a via

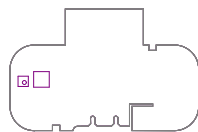


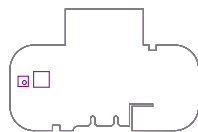
Hello

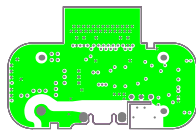
TITLE Morpheus_bottom		REV DVT
DATE 10/30/2014	DRAWN BY D. Fusi	SHEET 3 OF 3

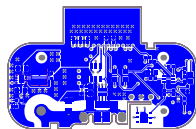


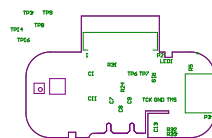


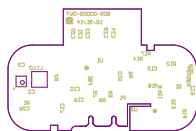


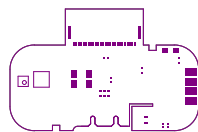


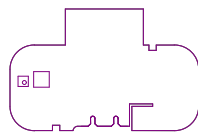


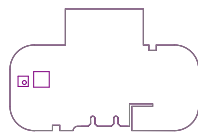






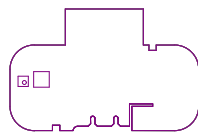










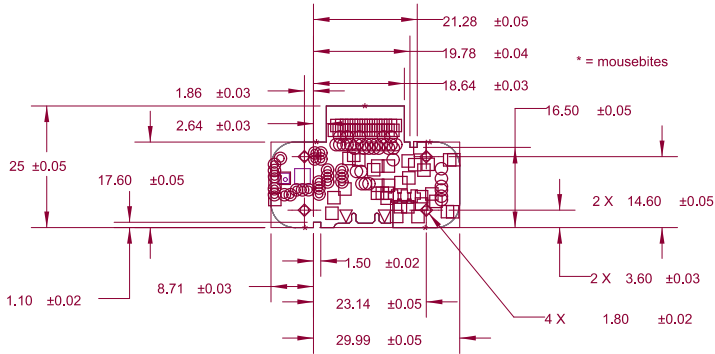


Fabrication / Assembly Notes

- 1. Material: Rigid FR-4, RoHS compliant; material should meet or exceed requirements of IPC 4101/129
- 2. Number of electrical layers: 4
- 3. Trace / Space minimum: 5mil (all layers)
- 4. Thickness: 1.25mm (finished)
- 5. Finish: ENIG plating on exposed copper
- 6. Soldermask: per IPC-SM-840, color blue registration within +/- 50um of circuit layer
- 7. Silkscreen: do print silkscreen on top and bottom layers
- 8. RoHS: parts shall be RoHS compliant as per European Union directive 2002/95/EC
- 9. Board must be lead free process compatible and able to withstand minimum of 5 cycles at 250 degrees celsius
- 10. All Test/QA/QC markings to be made on back side of PCB
- 11. x mousebites shall be no larger than 0.05 mm
- 12. All Dimensions are after plating/finishing
- 13. All components must be placed within +/- 0.10mm

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Paste				[Hatched Pattern]
2	Top Overlay				
3	Top Solder	Solder Resist	0.010mm	3.5	
4	Top Layer	Copper	0.036mm		
5	Dielectric1	FR-4	0.254mm	4.2	
6	GND	Copper	0.036mm		
7	Dielectric2		0.254mm	4.2	
8	PuB	Copper	0.036mm		
9	Dielectric3		0.127mm	4.2	
10	Bottom Layer	Copper	0.036mm		
11	Bottom Solder	Solder Resist	0.010mm	3.5	
12	Bottom Overlay				
13	Bottom Paste				

Symbol	Hit Count	Finished Hole Size	Plated	Hole Type
▽	2	0.600mm (23.62mil)	PTH	Slot
○	3	0.700mm (27.56mil)	PTH	Round
◇	4	1.800mm (70.87mil)	PTH	Round
●	24	0.400mm (15.75mil)	PTH	Round
○	38	0.305mm (12.00mil)	PTH	Round
□	63	0.200mm (7.87mil)	PTH	Round
134 Total				



METRIC		DRAWN	DATE			
DIMENSIONS ARE IN MILLIMETERS		DESIGNER	DATE			
TOLERANCES:				TITLE:		
0 > - < 2 0.05						
2 > - < 10 0.08						
10 > - < 50 0.10						
50 > - < 100 0.15						
100 > - < 200 0.20						
200 > - 0.20		PROPRIETARY AND CONFIDENTIAL				
ANGLES 1.00						
		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HELLO INC.				
		ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF HELLO INC IS PROHIBITED.				
		SIZE	DWG. NO.		REV	
		B				
		SCALE: 2:1		WEIGHT:	SHEET 1 OF 1	

