

	1	2	3	4	5	6
A						A
B						B
C						C
D						D

CHANGELOG

REV 3.2B

Added symbols to the data and stim ports

Added revision to the back of the board

J2 Depopulated

SMA diode footprint updated

0402 diode footprint updated

Updated J1 footprint to make assembly clearer

REV 3.2

Increased via size

Increases manufacturing flexibility

Pin 1 indicated on J3

New hardware resistor revision

REV 3.1

Changed isolated power module

Less noisy

Added selection jumpers to disable power module

Allows operation on battery

Changed 3.3V DC/DC to LDO

Less noisy, efficiency not needed

Added 150uF capacitors to power module

Decrease noise

Removed diagnostic jumpers

Replaced with resistors

Added capacitor to REF

Decrease noise

Added selection resistors to filter caps

Selectable between REF and GND

Added additional decoupling caps to -2.5V

Decrease noise

Routed -2.5V as polygon under ADCs

Lower impedance coupling

Fitted R44

Power switch not needed

Grounded unused ADC inputs

Decrease noise

Made programming port double-sided

Changed MCU to MKL27Z256VLH4

Pin compatible, includes ROM bootloader

Changed MCU UART pins to 23,24

Make compatible with bootloader



100 Mayfield Avenue  
Mountain View, CA 94043  
USA

Variant Name:

[No Variations]

Title: PCBA, LUCHADOR, REV 3.2b, AMBER  
Luchador System

Confidential and  
Proprietary

Size:  
B

Dwg No:  
650-02461-01

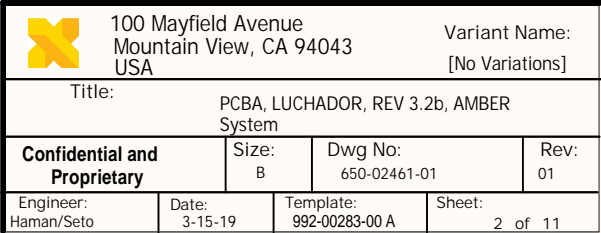
Rev:  
01

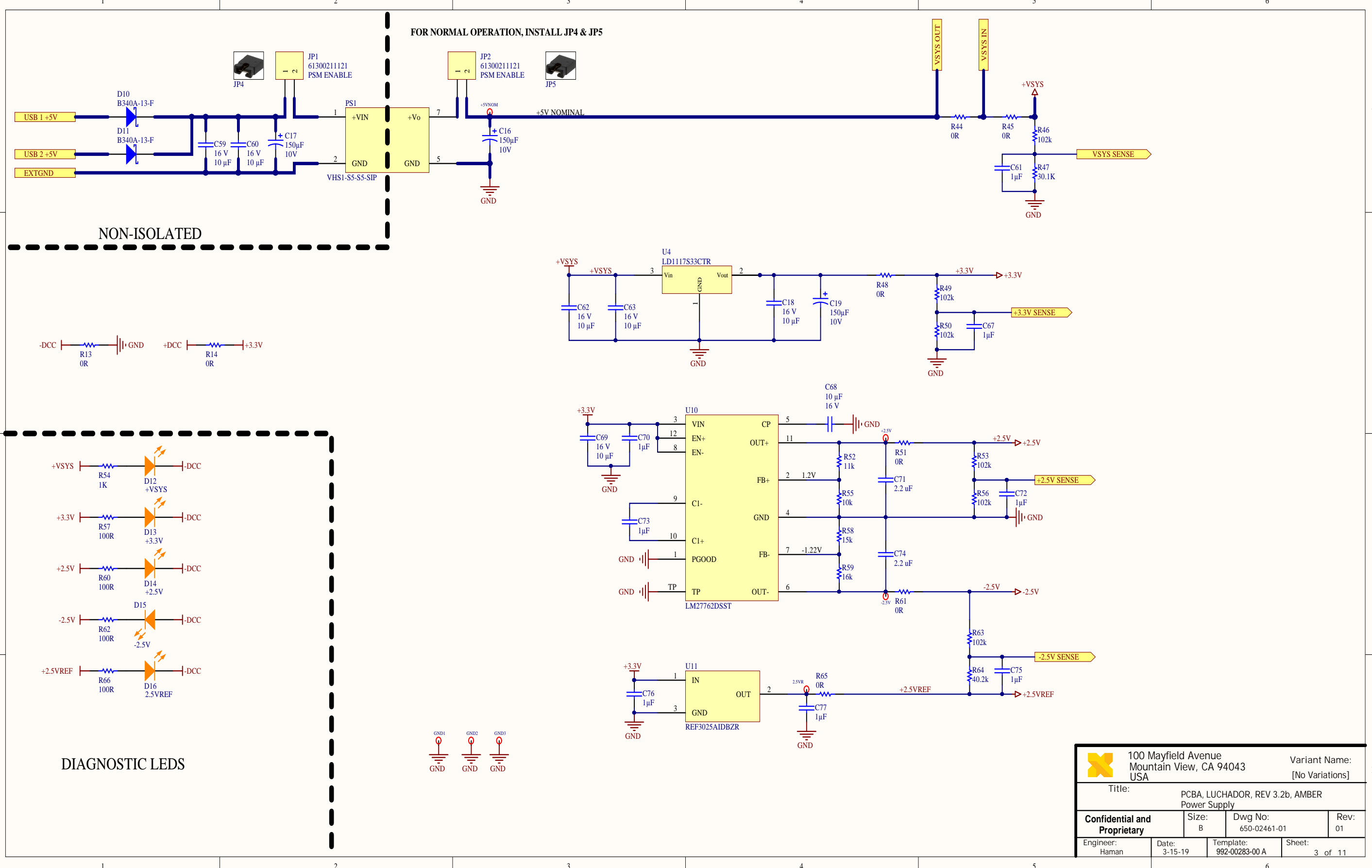
Engineer:  
Haman/Seto


Date:  
3-15-2019

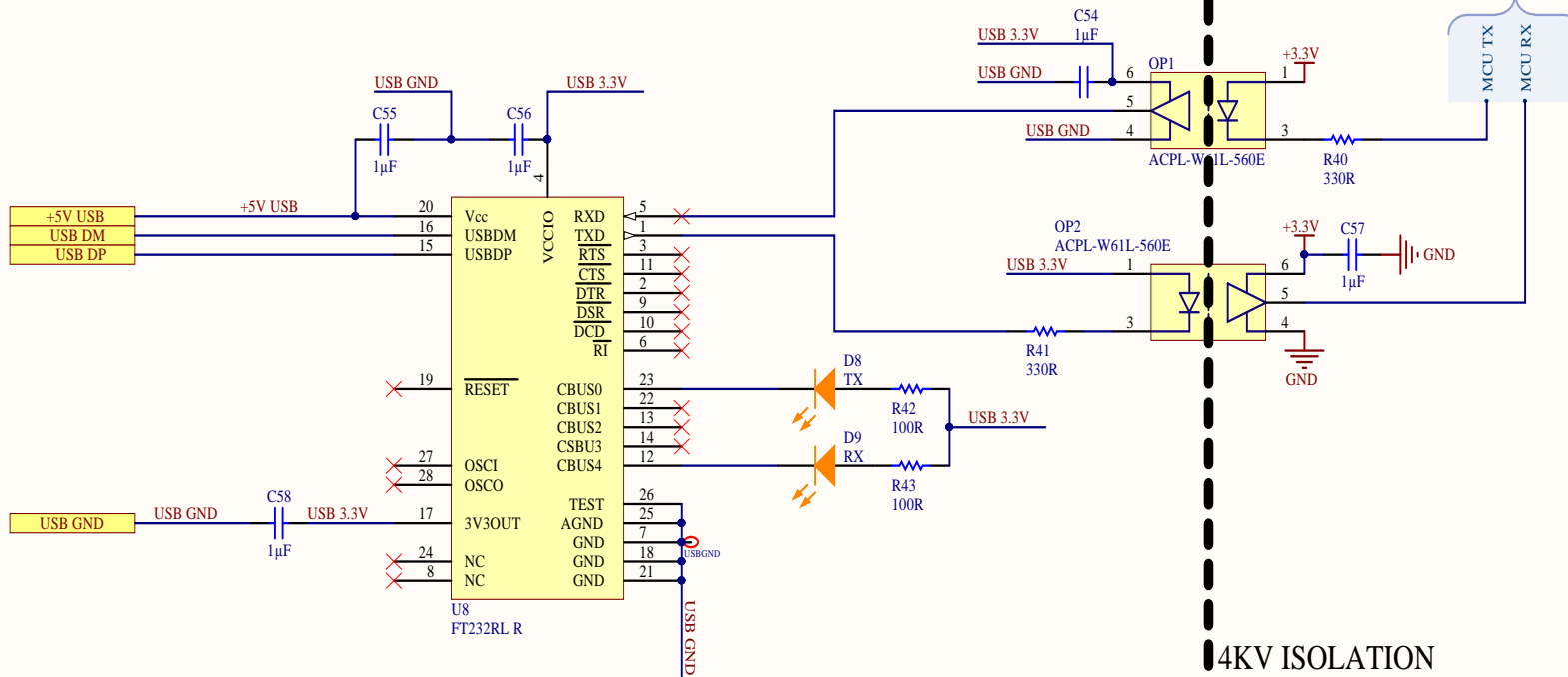
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992-00283-00 A


Sheet:  
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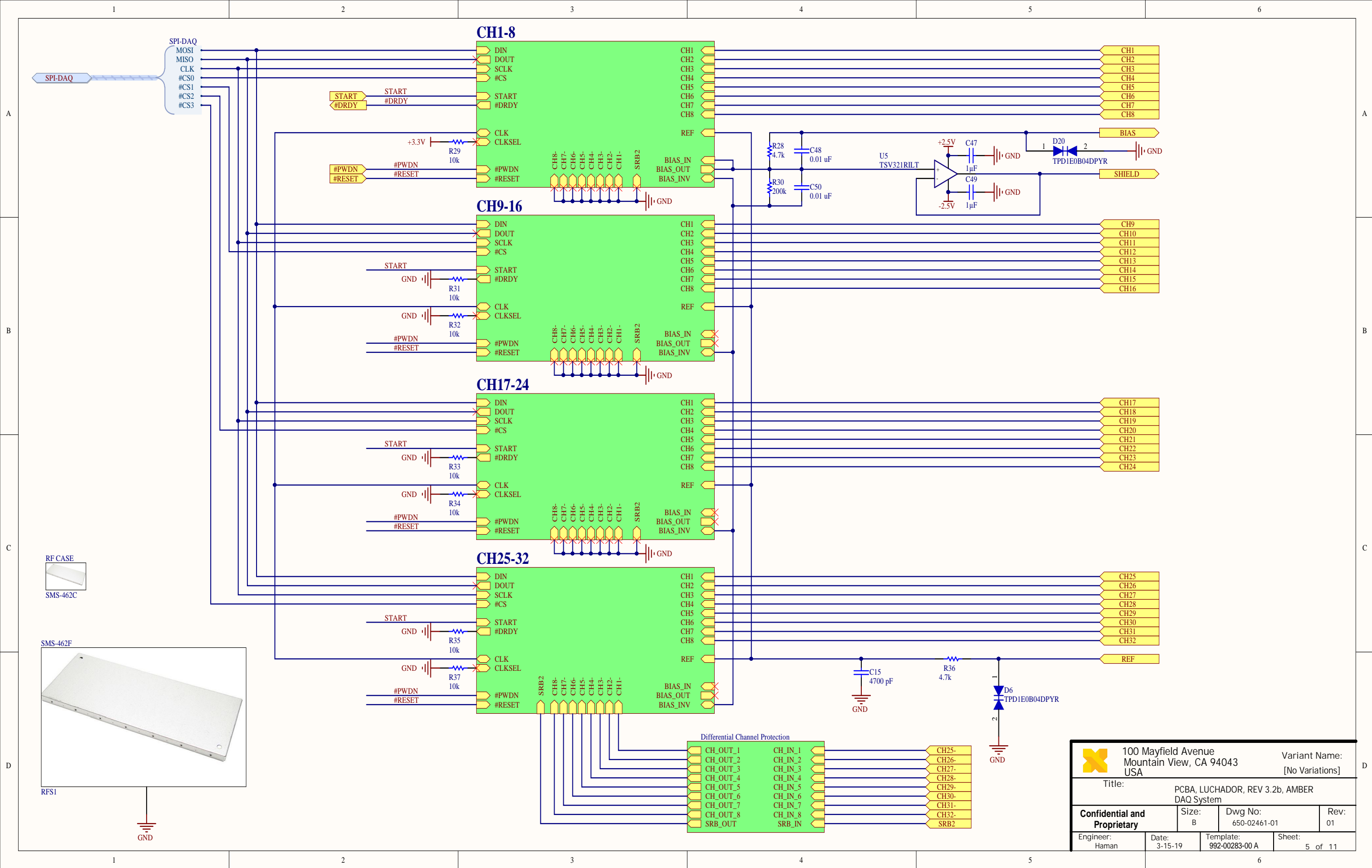


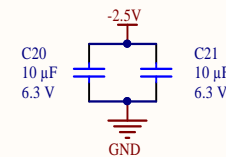
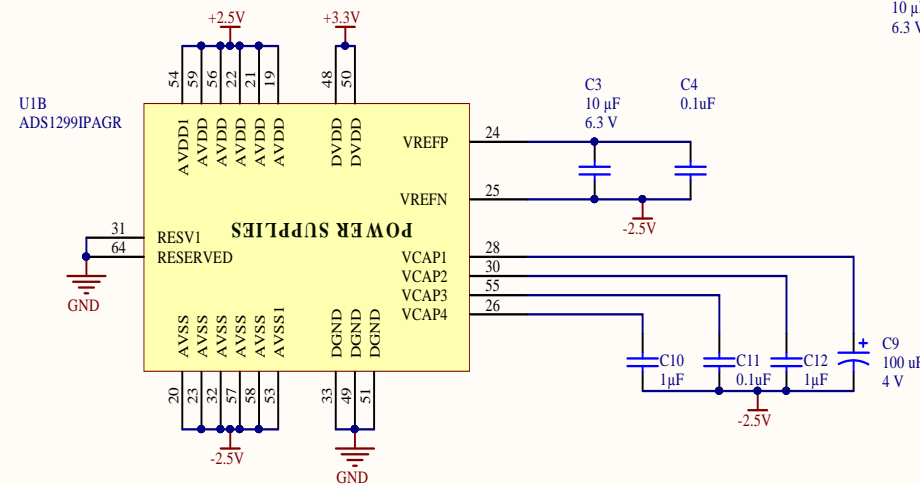
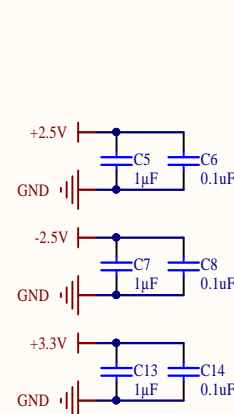
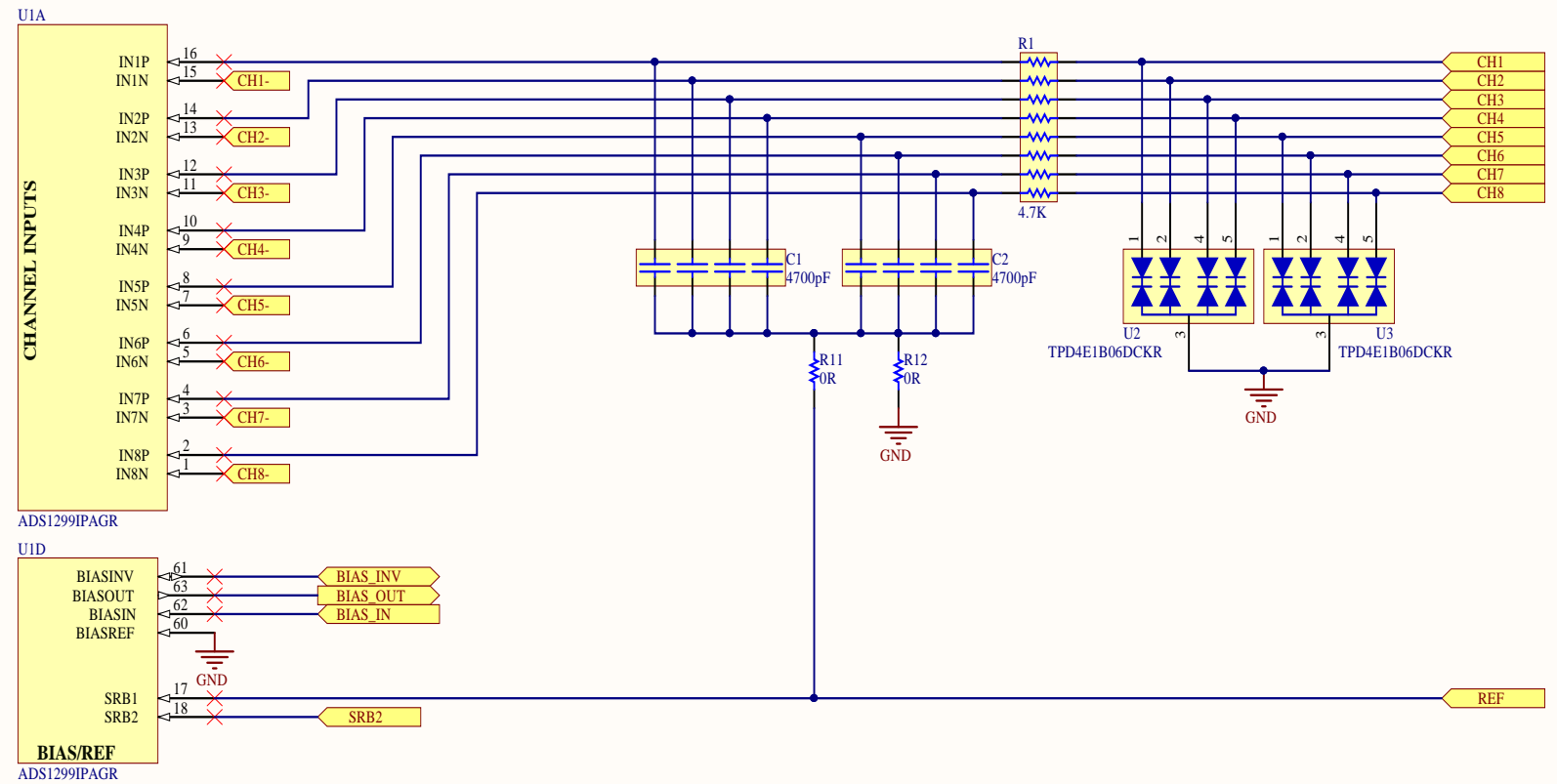
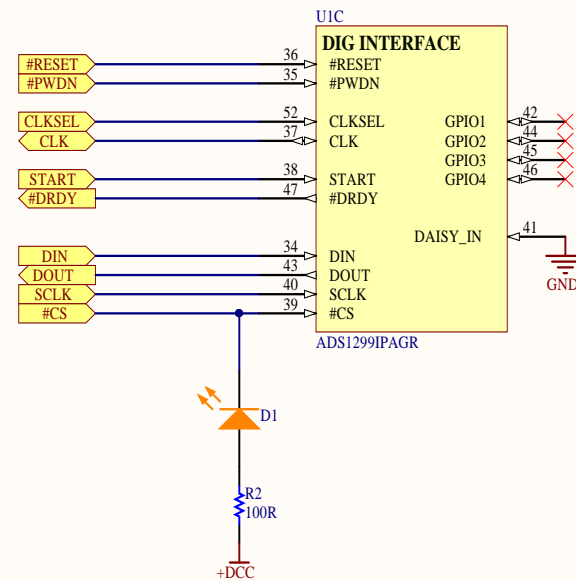


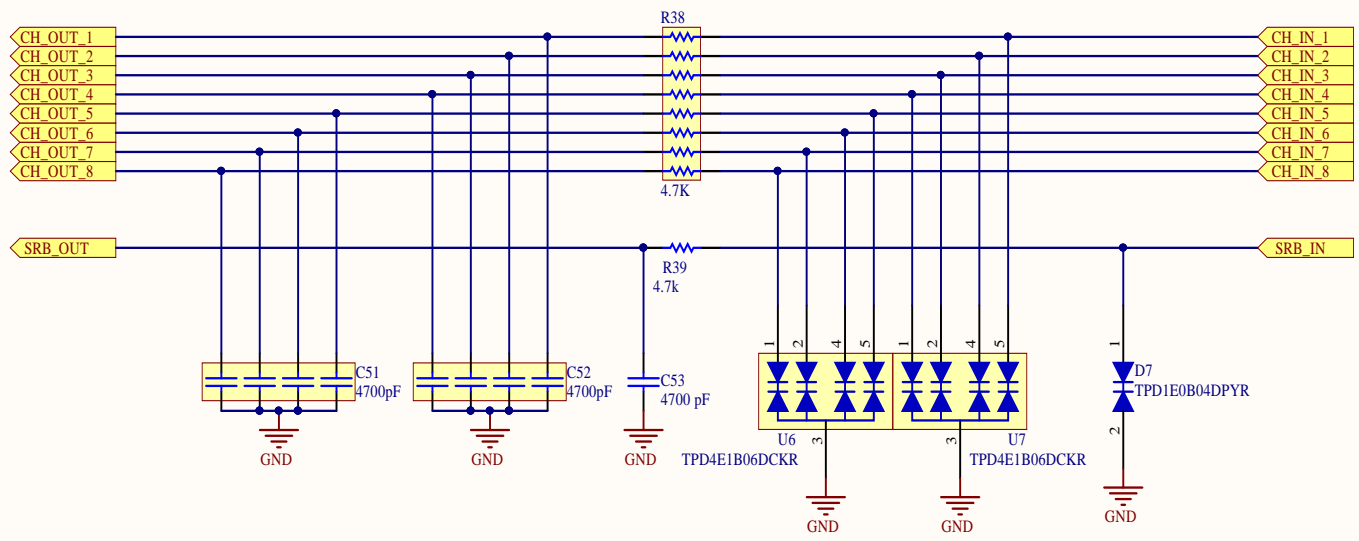
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<b>Confidential and Proprietary</b>		Size: B	Rev: 01
Engineer: Haman	Date: 3-15-19	Template: 992-00283-00 A	Sheet: 3 of 11




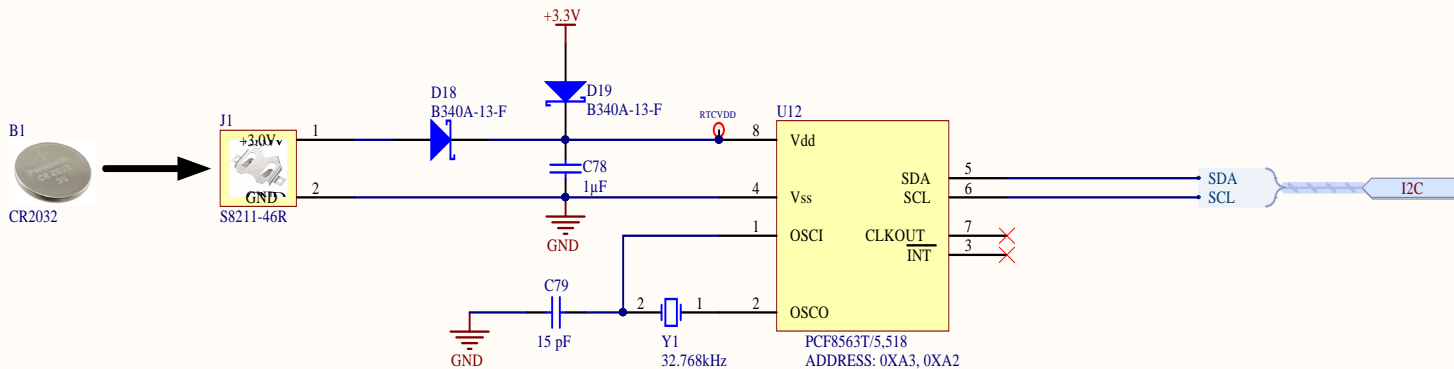
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Confidential and Proprietary		Size: A4	Dwg No: 650-02461-01	Rev: 01
Engineer: Haman	Date: 3-15-19	Template: 992-00283-00 A	Sheet: 4 of 11	





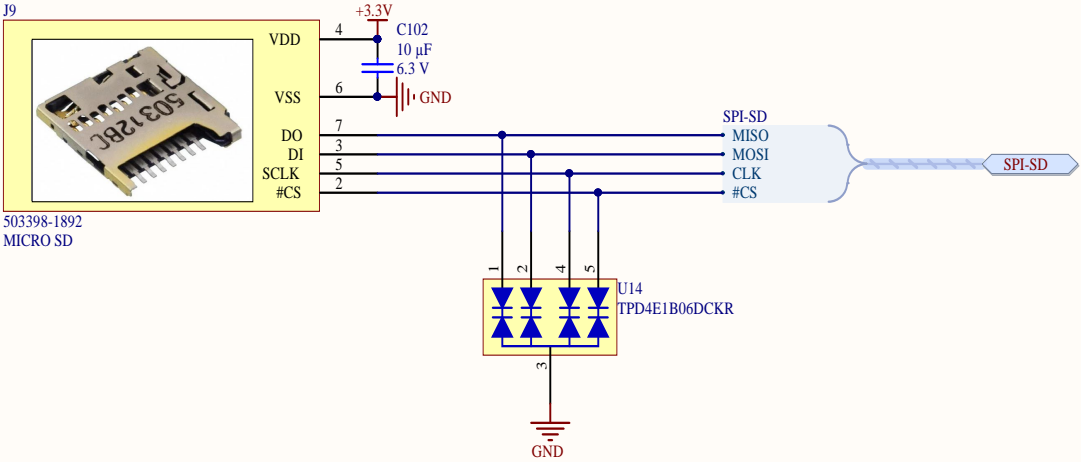


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Confidential and Proprietary		Size: A4	Dwg No: 650-02461-01	Rev: 01
Engineer: Haman	Date: 3-15-19	Template: 992-00283-00 A	Sheet: 7 of 11	



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Title: PCBA, LUCHADOR, REV 3.2b, AMBER Real Time Clock					
Confidential and Proprietary		Size: A4	Dwg No: 650-02461-01		Rev: 01
Engineer: Haman	Date: 3-15-19	Template: 992-00283-00 A		Sheet: 8 of 11	





100 Mayfield Avenue  
Mountain View, CA 94043  
USA

Variant Name:  
[No Variations]

Title: PCBA, LUCHADOR, REV 3.2b, AMBER  
Micro SD

**Confidential and  
Proprietary**

Size:  
A4

Dwg No:  
650-02461-01

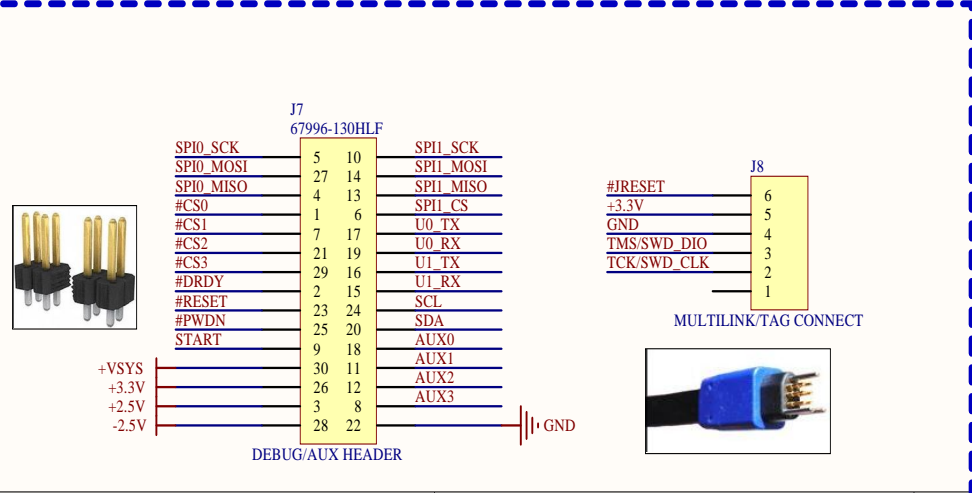
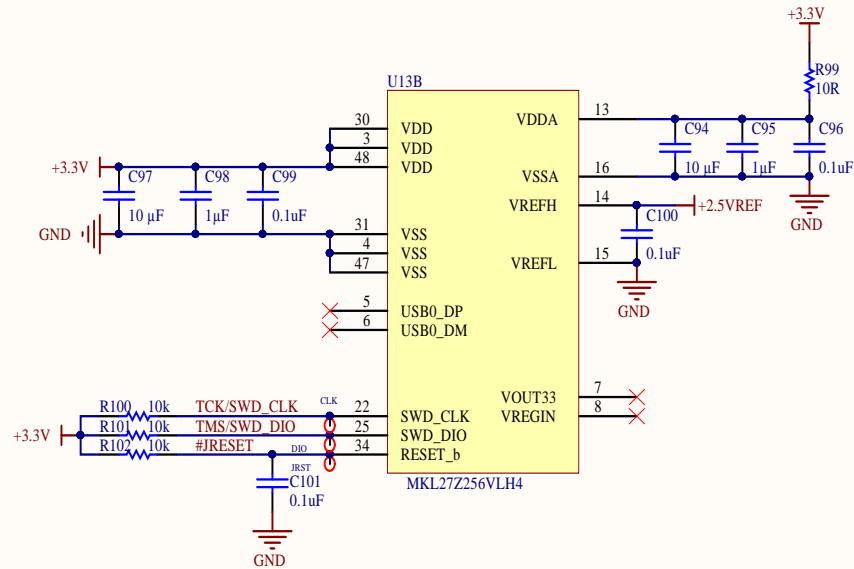
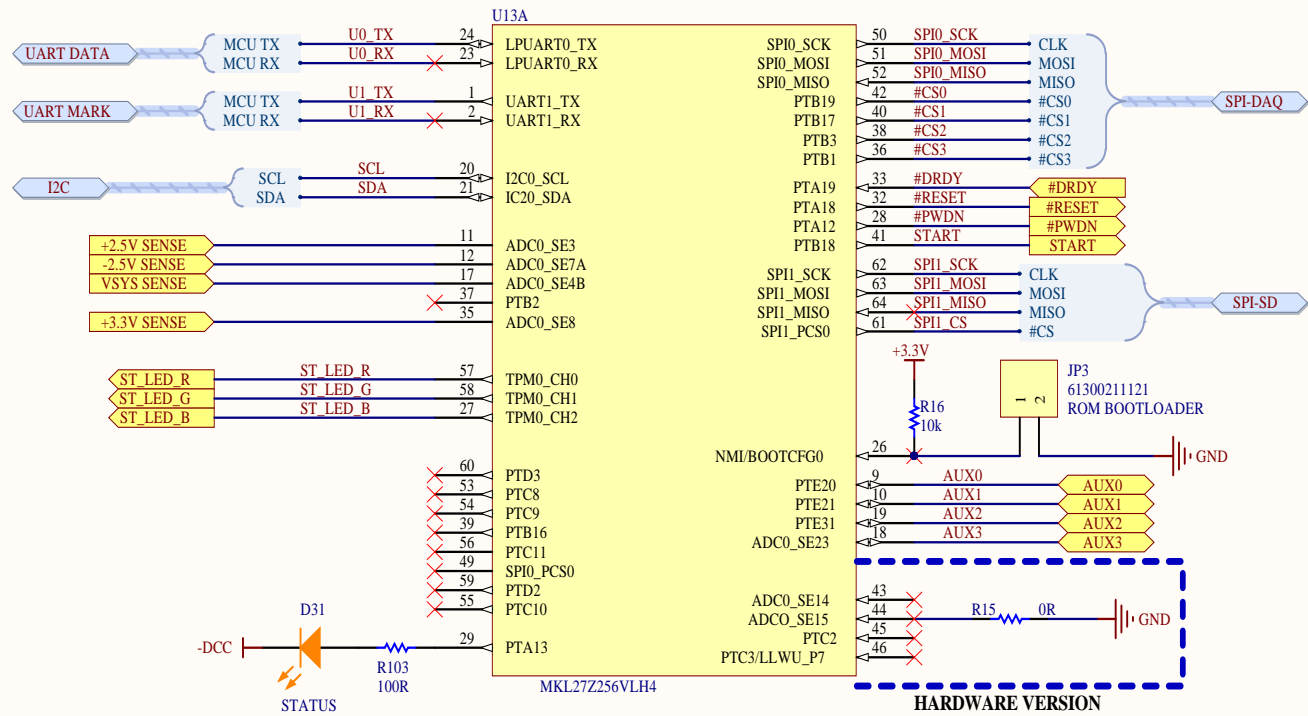
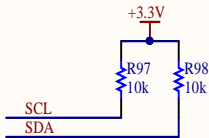
Rev:  
01


Engineer:  
Haman

Date:  
3-15-19

Template:  
992-00283-00 A

Sheet:  
10 of 11



 100 Mayfield Avenue Mountain View, CA 94043 USA		Variant Name: [No Variations]	
Title: PCBA, LUCHADOR, REV 3.2b, AMBER Microcontroller			
Confidential and Proprietary	Size: B	Dwg No: 650-02461-01	Rev: 01
	Engineer: Haman	Date: 3-15-19	Template: 992-00283-00 A
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