

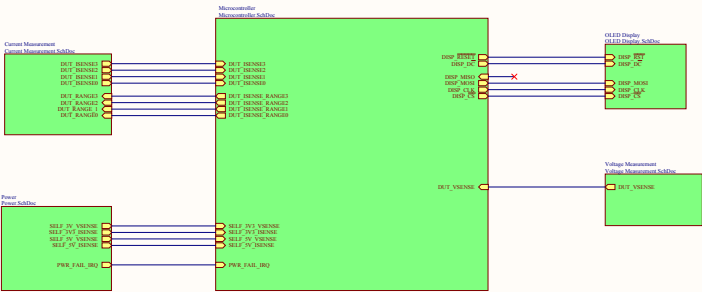
Current Measurement

Power

Voltage Measurement

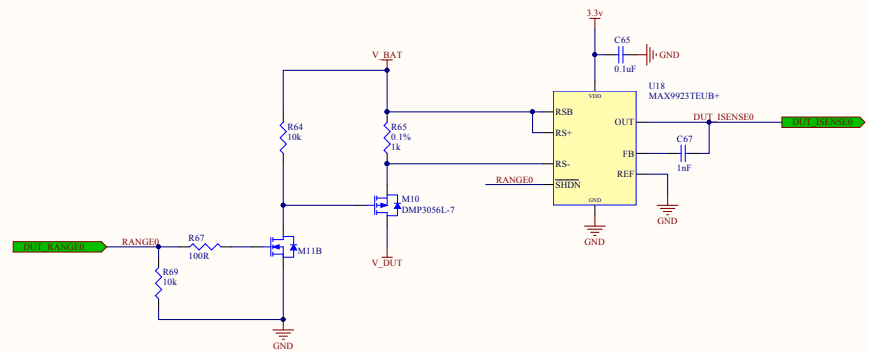
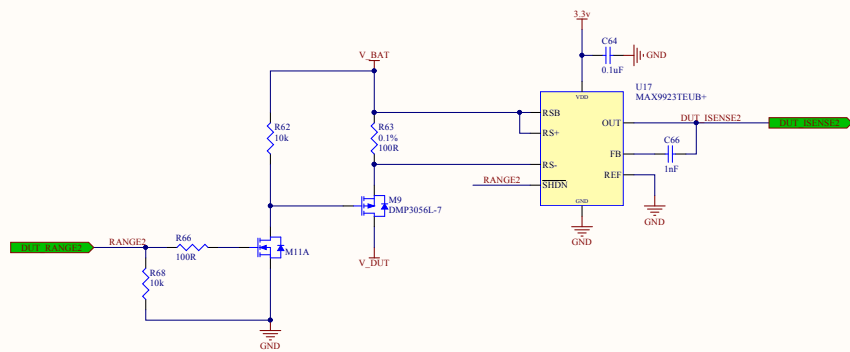
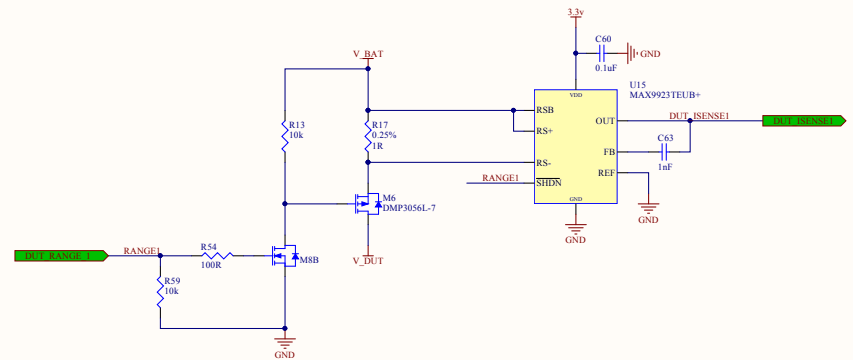
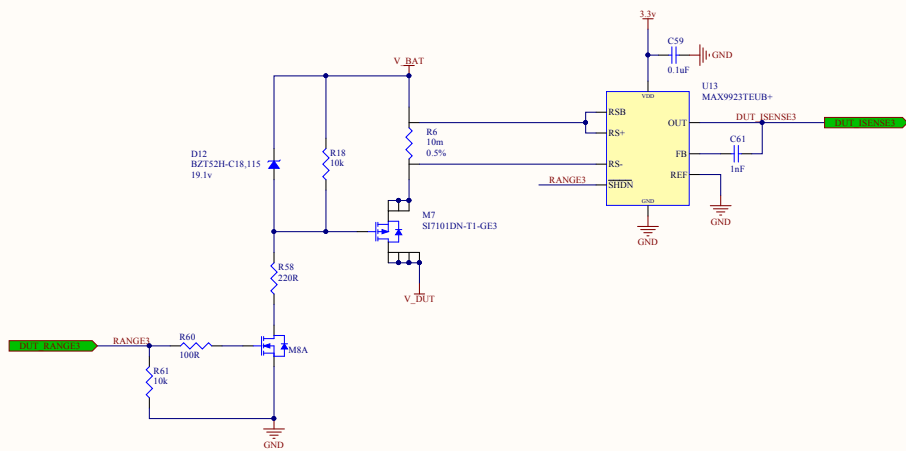
Connectives

OLED Display

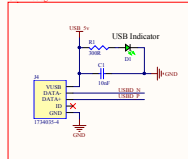
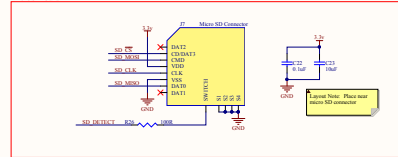
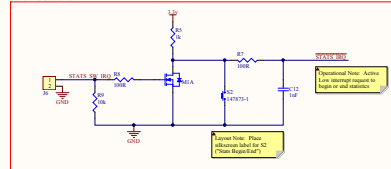


Title		Revision	
Rev	Number	Rev	Number
1	1.0	1	1.0
File		Sheet 1 of 1	
Date		2024-01-01	

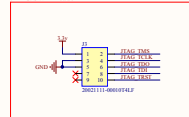
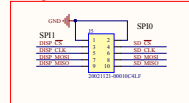
- Current Measurement
- Microcontroller
- Power
- Voltage Measurement
- Connectors
- OLED Display



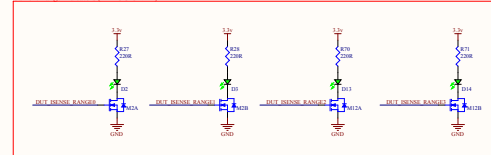
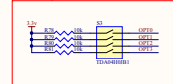
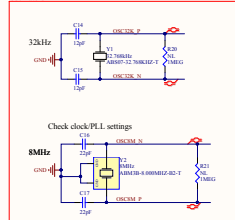
Title			
Current Measurement.SchDoc		Ross Harvey	
Size	Number	Revision	
C		A	
Date:	11/4/2015	Sheet 2 of 7	
File:	C:\Users\Ross\Current Measurement.SchDoc Drawn By: Ross Harvey		

[illegible][illegible]

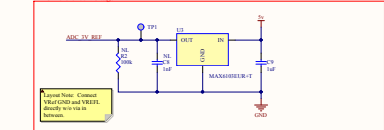
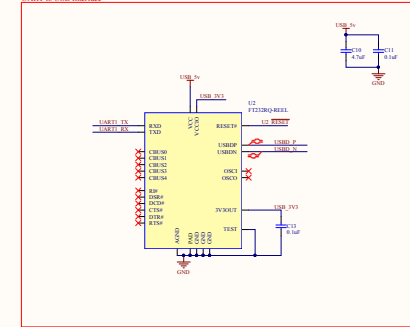
Pin connection diagram for the 28C01 1Kbit EPROM. The diagram shows a 28-pin DIP package with pins 1 through 10 on the left and pins 11 through 20 on the right. Pin 1 is connected to GND. Pin 2 is connected to SP1. Pin 3 is connected to SP1. Pin 4 is connected to SP1. Pin 5 is connected to SP1. Pin 6 is connected to SP1. Pin 7 is connected to SP1. Pin 8 is connected to SP1. Pin 9 is connected to SP1. Pin 10 is connected to SP1. Pin 11 is connected to SP1. Pin 12 is connected to SP1. Pin 13 is connected to SP1. Pin 14 is connected to SP1. Pin 15 is connected to SP1. Pin 16 is connected to SP1. Pin 17 is connected to SP1. Pin 18 is connected to SP1. Pin 19 is connected to SP1. Pin 20 is connected to SP1. The package is labeled 28C01121-00010C48F.



**Check clocks PLL settings**



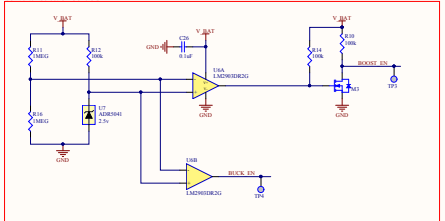
Legend Note: Connect V(A)GND and V(B)GND directly w/o via to GND.

[illegible]

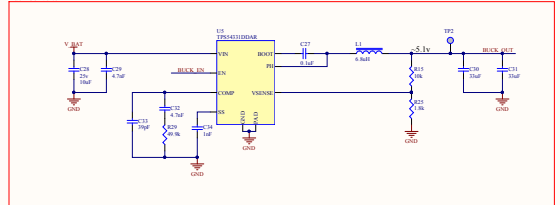
Title		Microcontroller SchDoc		Ron Harvey	
Size	Number			Revision	
D				A	
Date:	11/4/2015			Sheet 2 of 7	
File:	C:\Users\Ron\My Documents\Microcontroller SchDoc			Drawn by: Ron Harvey	

- Current Measurement
- Voltage Measurement
- Power
- Temperature Measurement
- Combiner
- LED Display

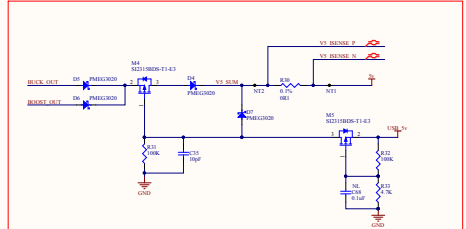
Converter Selection Controls



Buck Converter

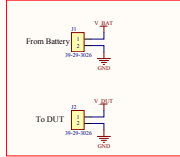


USB Auto Switchover

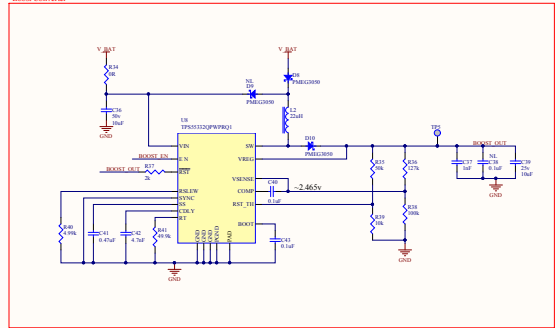


Note: Boost, Out and Buck, Out are the TV outputs from the switching converter. The USB auto-switchover ensures that the TV rail from the existing converter output to the TV USB with self-start (low current) supply.

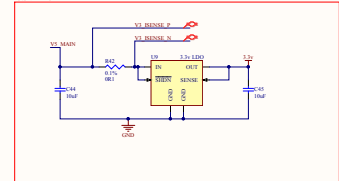
Power Connection



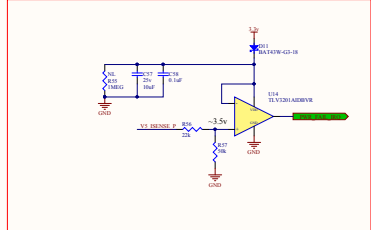
Boost Converter



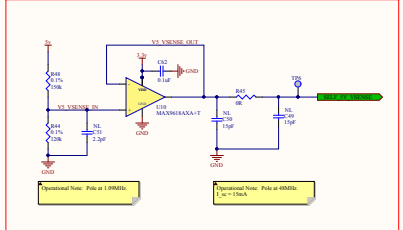
3.3V LDO



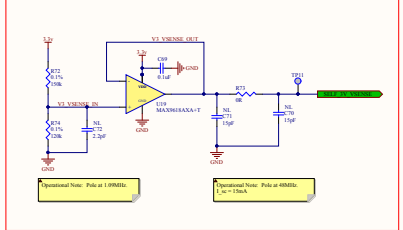
Power Failure Indicator



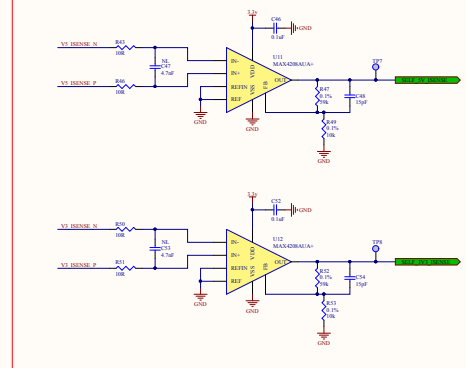
5v Rail Measurement



3.3v Rail Measurement



1vme Measurement



Power SubDoc		JELAB001	
Rev	Number	Revision	
1	1.0	1.0	
Date		2014-01-01	
Author		JELAB001	

Current Measurement

Microcontroller

Power

Voltage Measurement

Connectors

OLED Display

Firmware Note: Compensate for the DUT\_GND/GND offset.

Operational Note: Pole at 602kHz.  
0.216v < DUT\_VSENSE\_IN < 2.88v

Operational Note: Pole at 48MHz.  
I\_sc = 15mA

Title		Voltage Measurement.SchDoc		Ross Harvey	
Size	B	Number		Revision	
Date:		11/4/2015		Sheet 5 of 7	
File:		C:\Users\...\Voltage Measurement.SchDoc		Drawn By: Ross Harvey	

Current Measurement

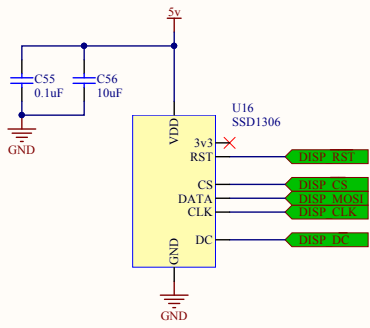
Microcontroller

Power

Voltage Measurement

Connectors

OLED Display



Title		OLED Display.SchDoc		*	
Size	B	Number		Revision	
Date:		11/4/2015		Sheet 7 of 7	
File:		C:\Users\...\OLED Display.SchDoc		Drawn By: *	

2.5 in

2 in

