EFP0108 Evaluation Board

Single-Cell Boost Configration

Board Function	Page
Title Page	1
EFP01	2
Host MCU	3
Debugger & Board Power	4

Revision History

Rev.	Description
A00	Initial version.

PCB1

PCB8100A

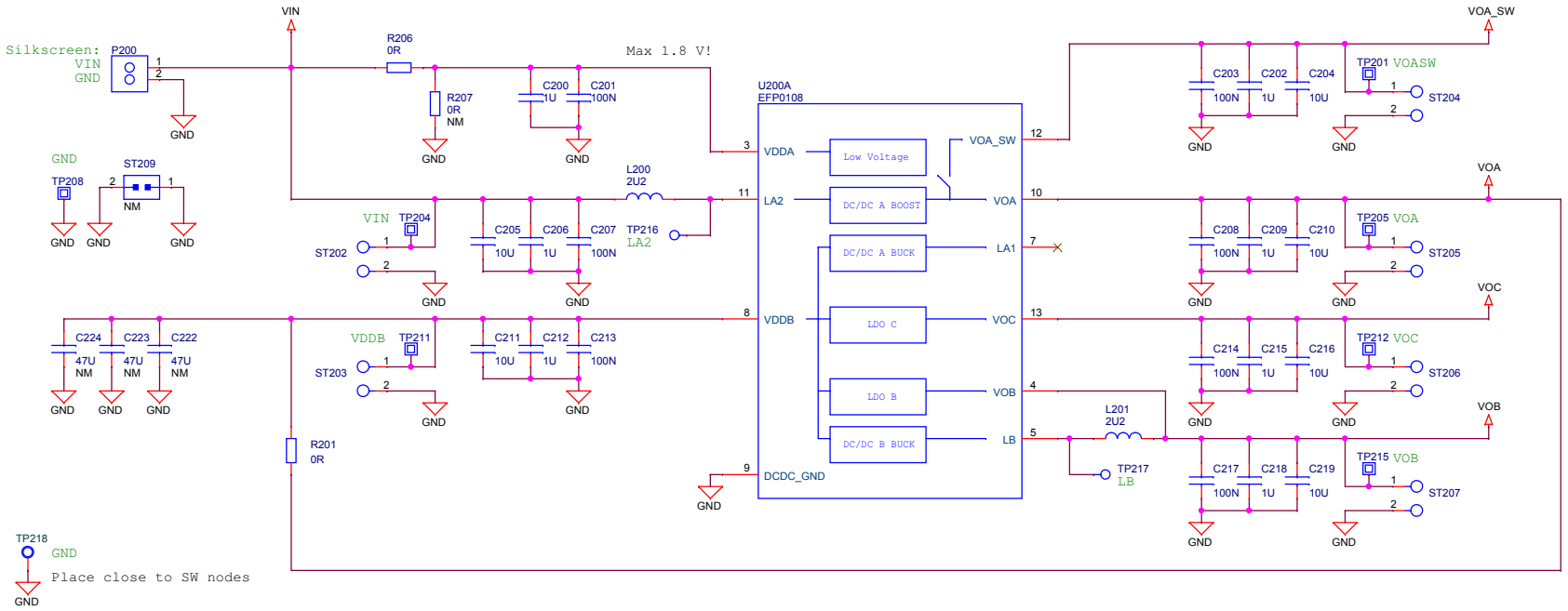
<Schematic Path>
SCHEMATIC1

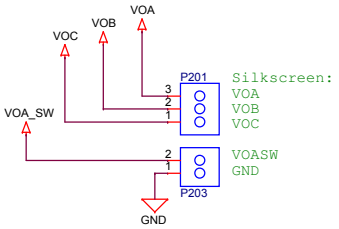
Designed: ESH	Approved: JSH	Schematic Title: EFP0108 Evaluation Board	
Size: A3	BOM Doc No: <Cage Code>	Page Title: Title Page	
Design Created Date: Monday, February 04, 2019		Document number: BRD8100A	Revision: A00
		Sheet Created Date: Thursday, February 28, 2019	Sheet Modified Date: Wednesday, March 27, 2019
			Sheet: 1 of 4

Power Input

EFP01

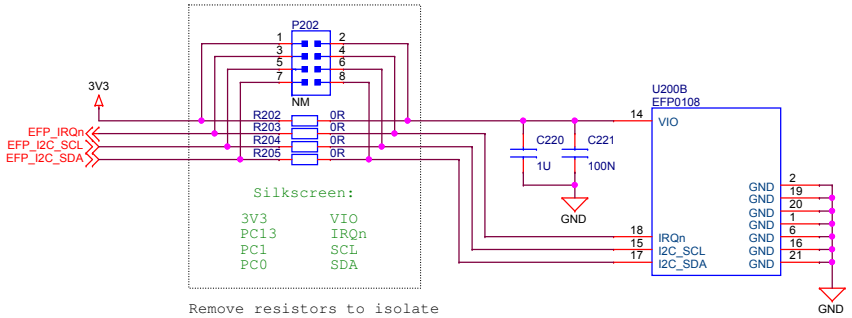
Power Output





EFP01 Digital Section

Host MCU Connection

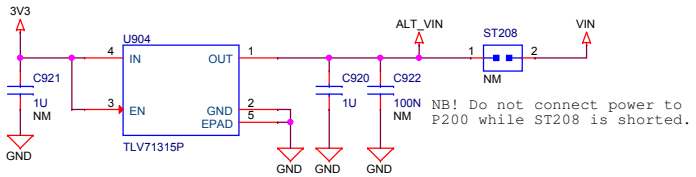


Remove resistors to isolate the EFP from the host MCU.

NB! Ground is not isolated

On-board LDO (from USB)

This rail is only intended for low power applications, and in the absence of a power source on P200.

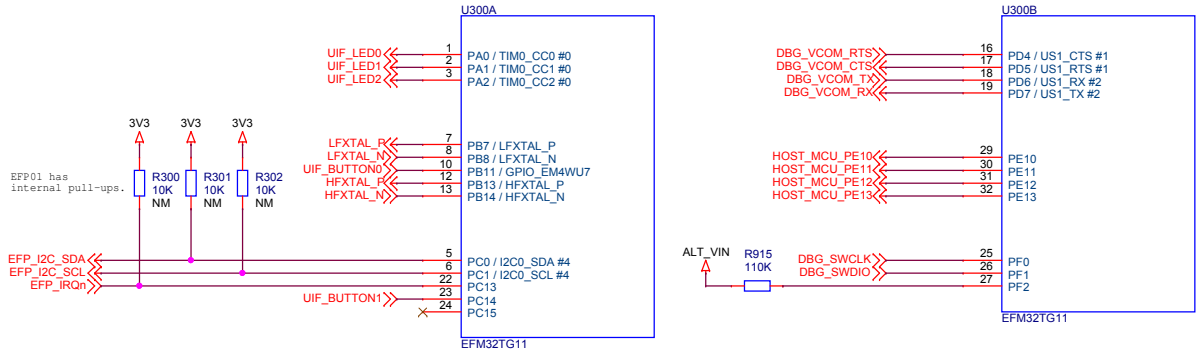


BRD8100A: 1.5 V LDO
BRD8100B: 3.0 V LDO

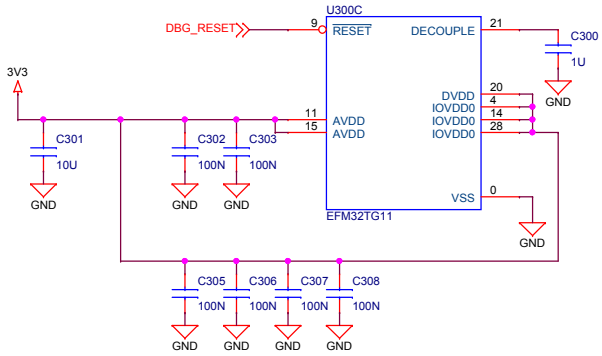
<Schematic Path>
SCHEMATIC1

SILICON LABS		Schematic Title: **EFP0108 Evaluation Board**	
		Page Title: **EFP01**	
Designed: ESH	Approved: JSH	Document number: **BRD8100A**	Revision: A00
Size: A3	BOM Doc No: <Cage Code>		
Design Created Date: Monday, February 04, 2019		Sheet Created Date: Friday, March 01, 2019	Sheet Modified Date: Wednesday, March 27, 2019
			Sheet 2 of 4

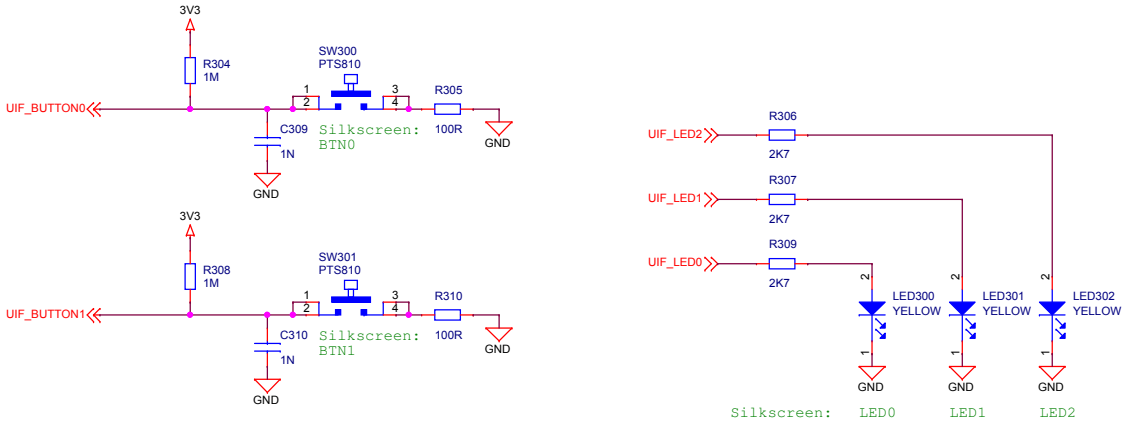
Host MCU I/O



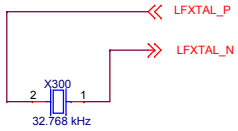
Host MCU Power



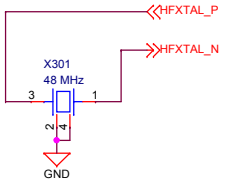
Buttons & LEDs



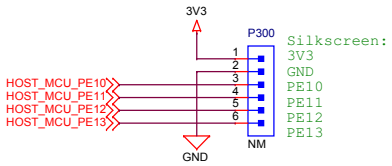
Low Frequency Clock



High Frequency Clock



Breakout Pads



<Schematic Path>
SCHEMATIC1

SILICON LABS

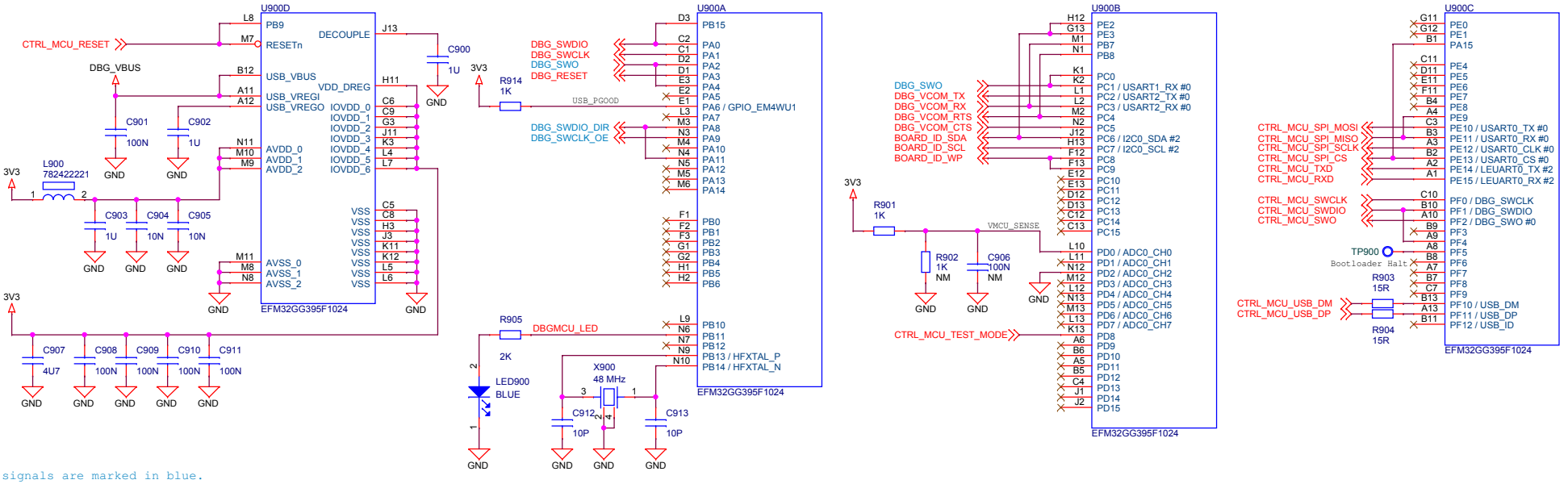
Designed: ESH	Approved: JSH
Size: A3	BOM Doc No: <Cage Code>
Design Created Date: Monday, February 04, 2019	

Schematic Title: **EFP0108 Evaluation Board**

Page Title: **Host MCU**

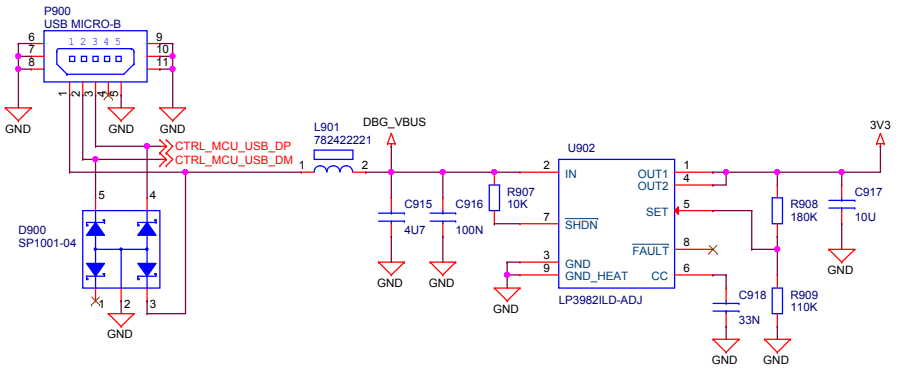
Document number: **BRD8100A**	Revision: A00
Sheet Created Date: Monday, February 04, 2019	Sheet Modified Date: Wednesday, March 27, 2019
	Sheet: 3 of 4

On-board Debugger



Unused signals are marked in blue.

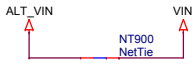
Debug USB Connection



3.3 V Regulator

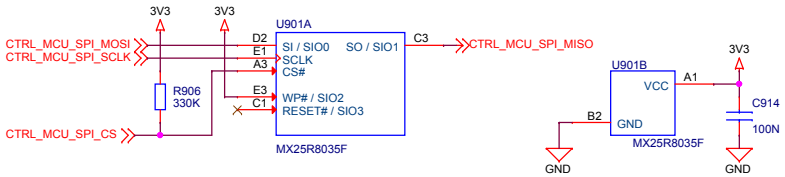
The Host MCU resides on the same power domain as the on-board debugger.

Misc.

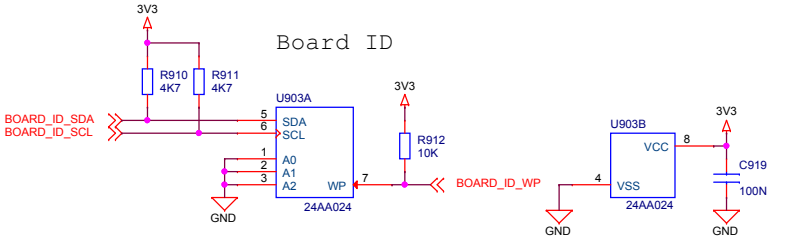


Place NT900 in panel.

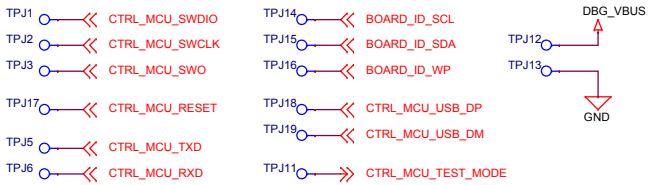
Serial Flash



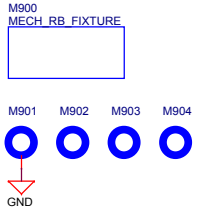
Board ID



Test Points



Mech



SILICON LABS

Schematic Title	**EFP0108 Evaluation Board**
Page Title	**Debugger & Board Power**
Designed: ESH / Approved: JSH	Document number: **BRD8100A** / Revision: **A00**
Size: A3 / BOM Doc No: <Cage Code>	
Design Created Date: Monday, February 04, 2019	Sheet Created Date: Monday, February 04, 2019 / Sheet Modified Date: Wednesday, March 27, 2019 / Sheet 4 of 4