



EFM32 Pearl Gecko STK

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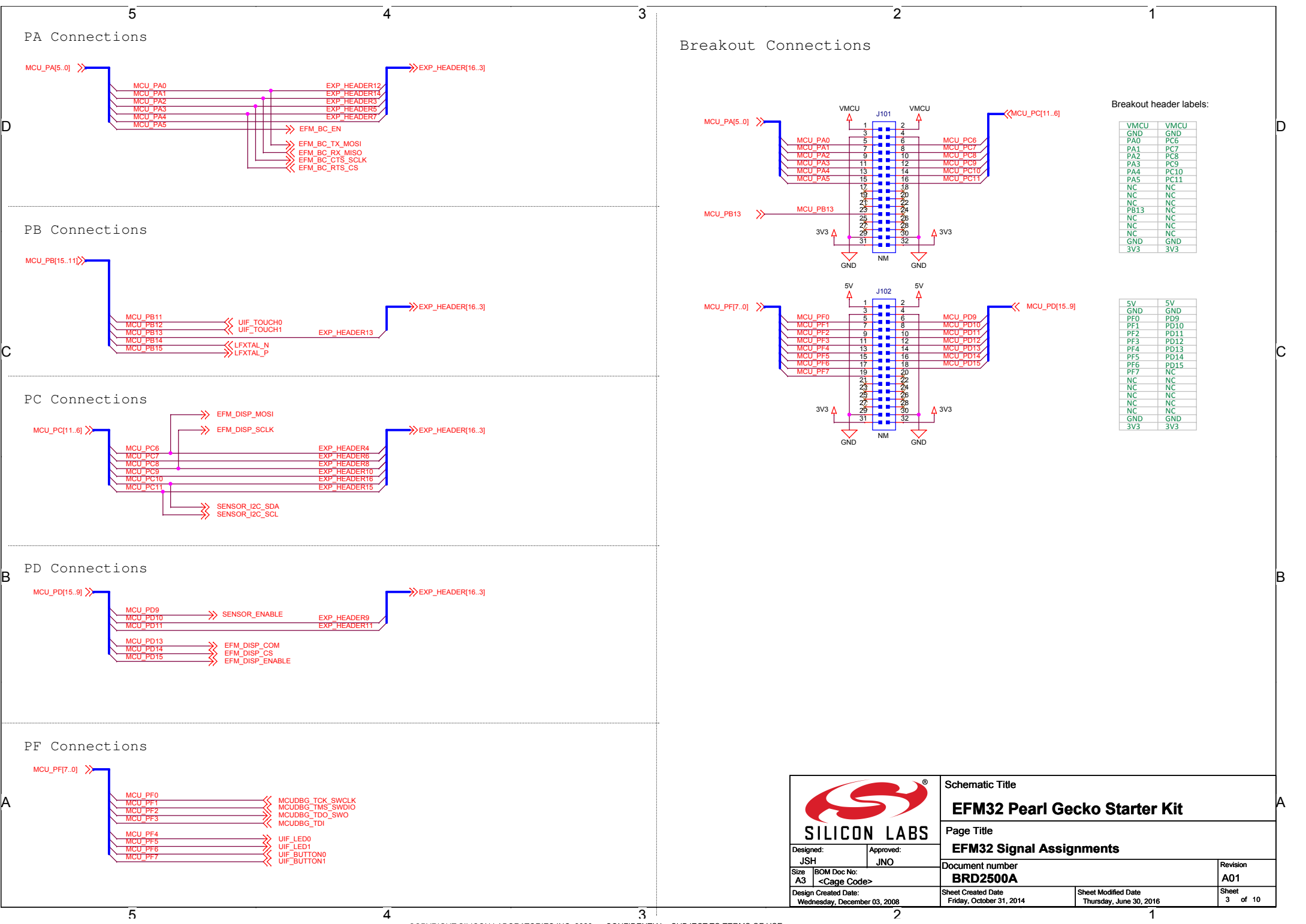
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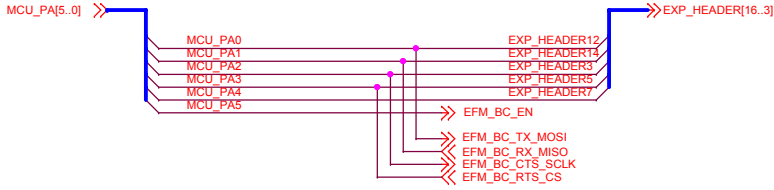
Revision History	
Rev.	Description
A00	Initial release.
A01	Updated EFM32 to revision C0.

EFM32PG STK

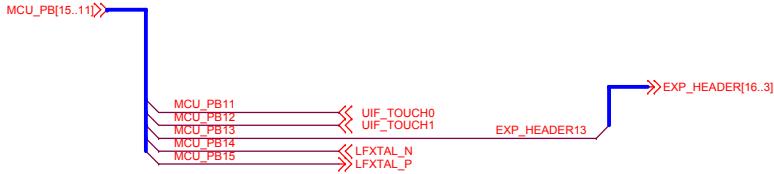
 SILICON LABS		Schematic Title	
		EFM32 Pearl Gecko Starter Kit	
Designed: JSH		Page Title	
Approved: JNO		Title Page	
Size: A3	BOM Doc No: <Cage Code>	Document number	Revision
Design Created Date: Wednesday, December 03, 2008		BRD2500A	A01
	Sheet Created Date: Saturday, March 21, 2009	Sheet Modified Date: Thursday, June 30, 2016	Sheet 1 of 10



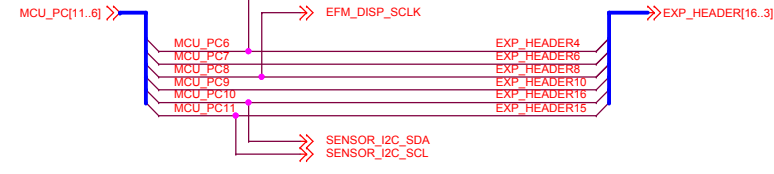
PA Connections



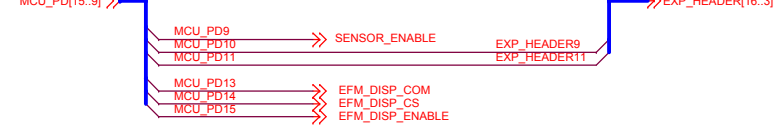
PB Connections



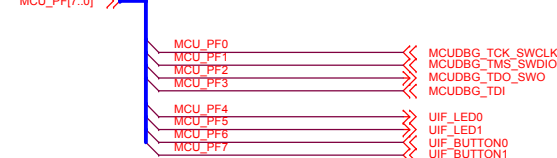
PC Connections



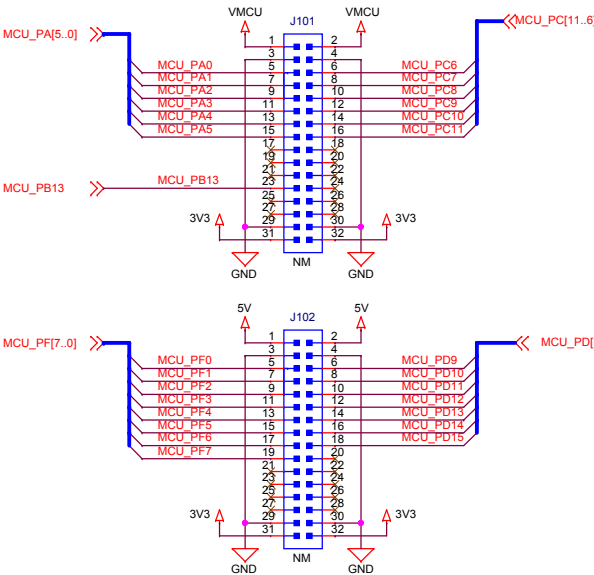
PD Connections



PF Connections



Breakout Connections



Breakout header labels:

VMCU	VMCU
GND	GND
PA0	PC6
PA1	PC7
PA2	PC8
PA3	PC9
PA4	PC10
PA5	PC11
NC	NC
NC	NC
NC	NC
PB13	NC
NC	NC
NC	NC
NC	NC
GND	GND
3V3	3V3

5V	5V
GND	GND
PF0	PD9
PF1	PD10
PF2	PD11
PF3	PD12
PF4	PD13
PF5	PD14
PF6	PD15
PF7	NC
NC	NC
NC	NC
NC	NC
NC	NC
NC	NC
GND	GND
3V3	3V3



SILICON LABS

Schematic Title

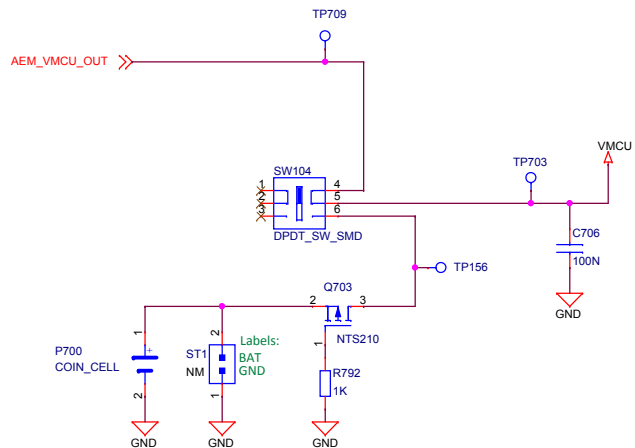
EFM32 Pearl Gecko Starter Kit

Page Title

EFM32 Signal Assignments

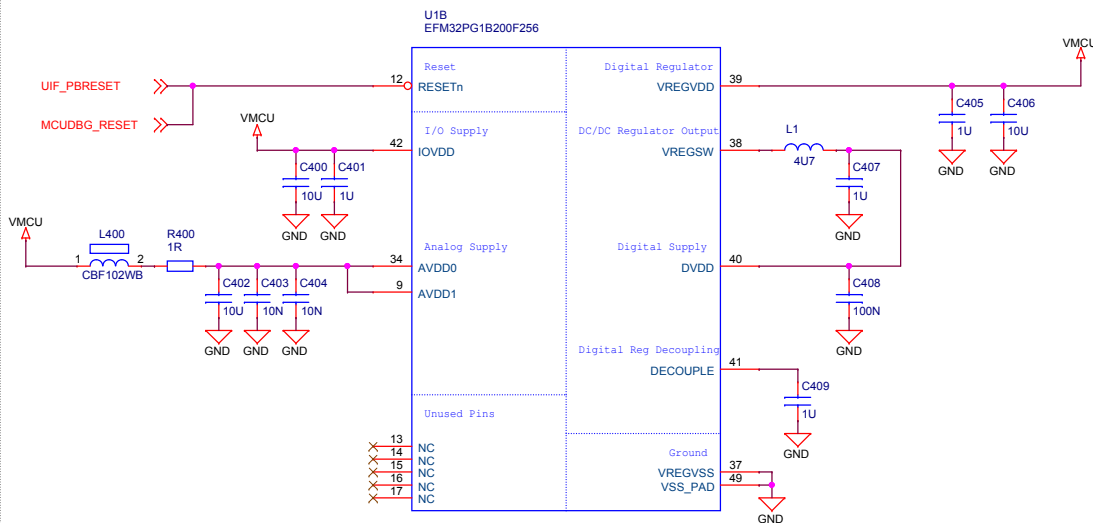
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Power Select Switch: AEM/BAT



SWITCH POS	MODE DESCRIPTION
AEM	AEM Enabled, VMCU sourced from external 3.3V LDO powered by BC USB 5V supply
BAT	AEM Disabled, VMCU sourced from coin-cell battery or external power supply

EFM32 Power and Decoupling



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Approved: JNO		EFM32 Power	
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D

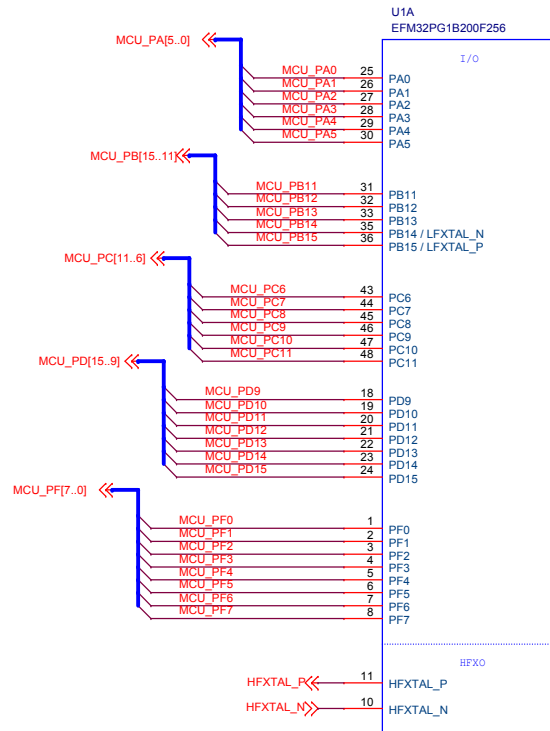
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C

C

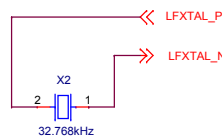
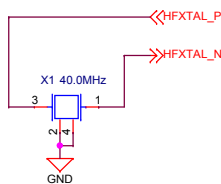
B

B



High Frequency Clock

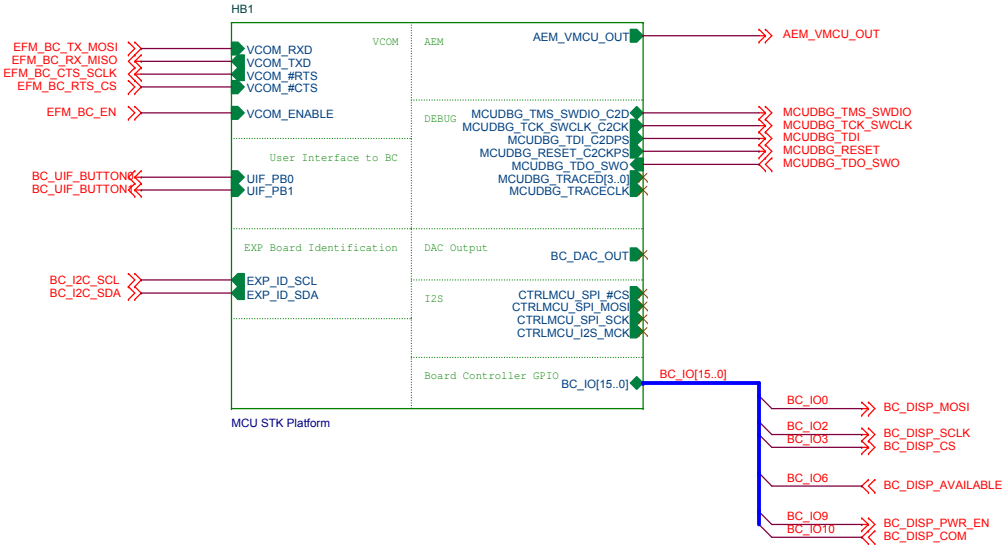
Low Frequency Clock



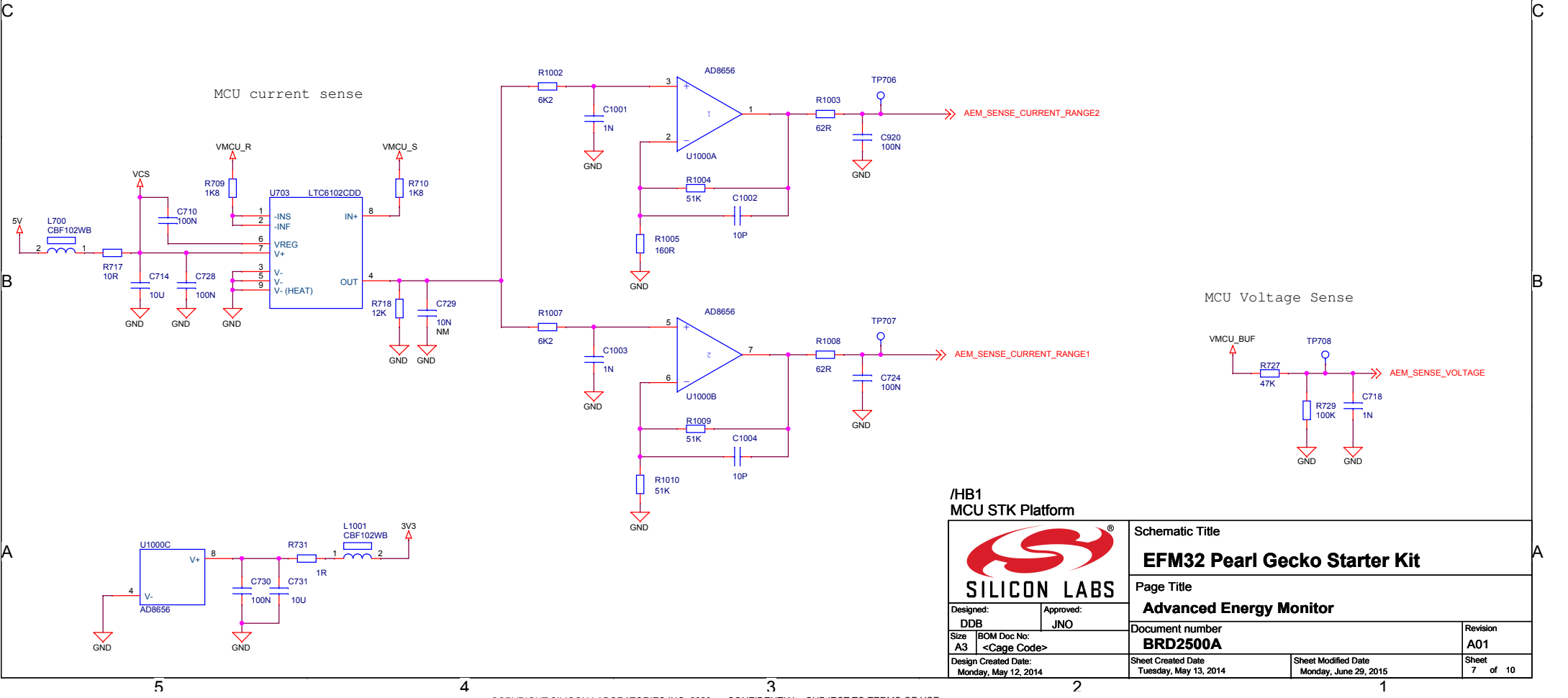
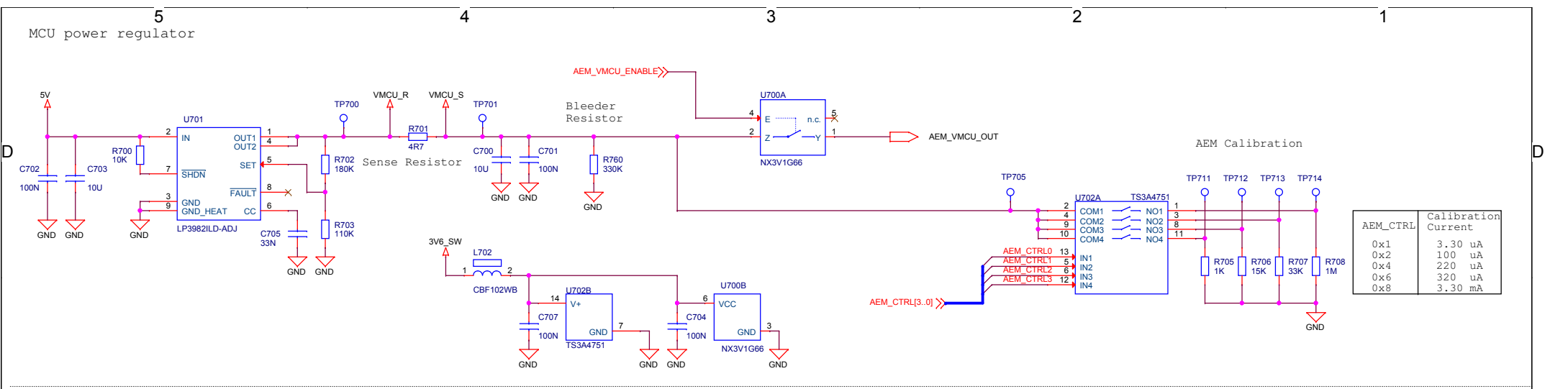
A

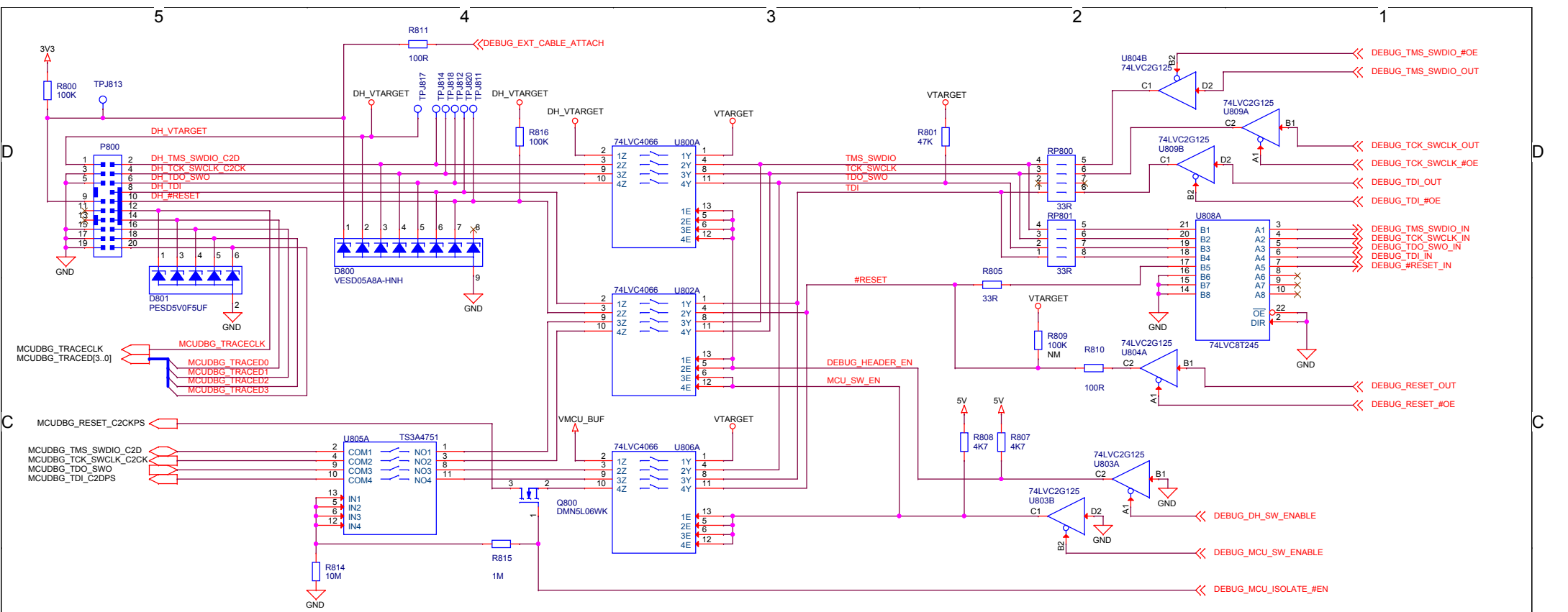
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		EFM32 Pearl Gecko Starter Kit	
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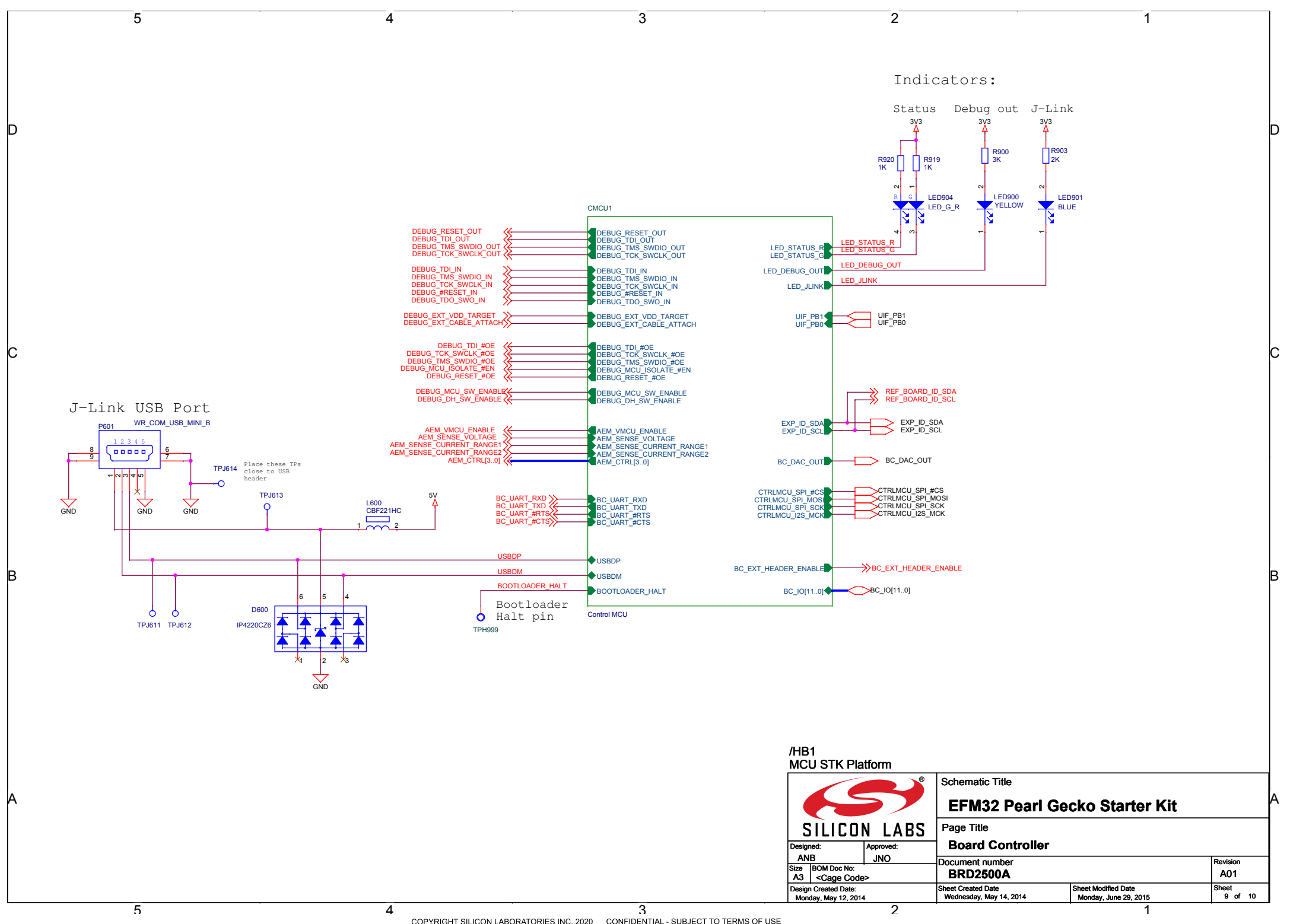
Power & Decoupling

Mode	DEBUG_MCU_SW_ENABLE	DEBUG_DH_SW_ENABLE	DEBUG_BUF_#OE	ISOLATE_#EN	DH_VTARGET	VTARGET
Debug Out	0	1	0	0	External voltage	External voltage
MCU Debug	1	0	0	1	VMCU	VMCU
Debug In	1	1	1	1	VMCU	VMCU
Debug Off	1	1	1	0	-	-

SILICON LABS

/HB1 MCU STK Platform

Schematic Title	
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Debug Interface	
Document number	
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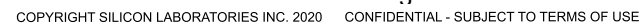
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MCU STK Platform

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Approved: JNO		Board Controller	
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C



A

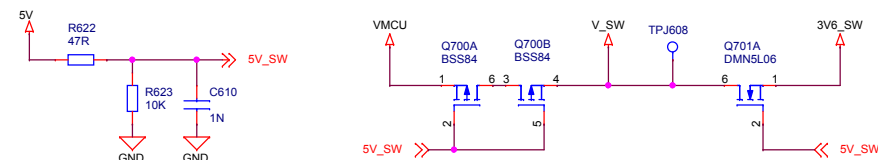


2

C

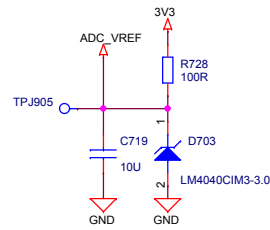


A

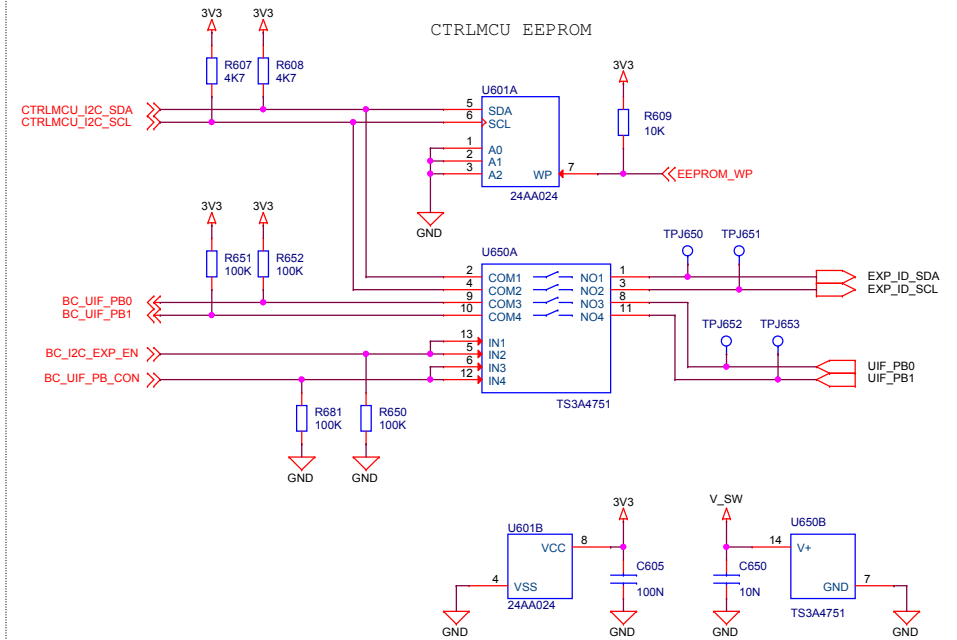
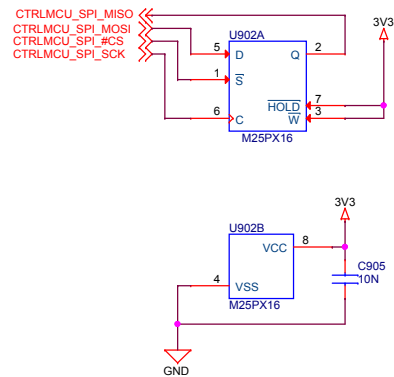


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Page Title		Power & Misc	
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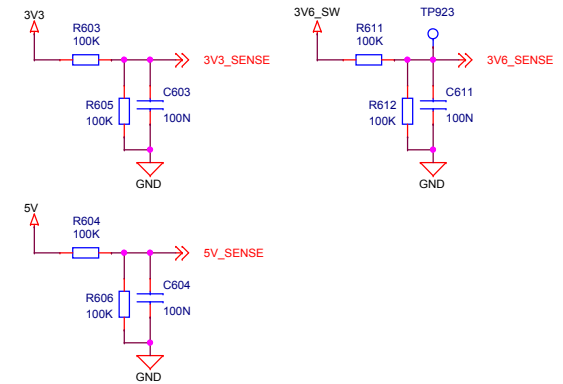
ADC reference voltage



CTRLMCU SERIAL FLASH



POWER SENSE



/HB1/CMCU1
Control MCU

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Approved: JNO		Board Controller Misc	
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