

EFM32 Leopard Gecko STK

Board Function	Page
Title Page	1
User Interface	2
Signal Assignments	3
EFM32 I/O	4
EFM32 Power	5
LCD	6
Power & Misc	7
Advanced Energy Monitor	8
Debug Interface	9
Control MCU	10

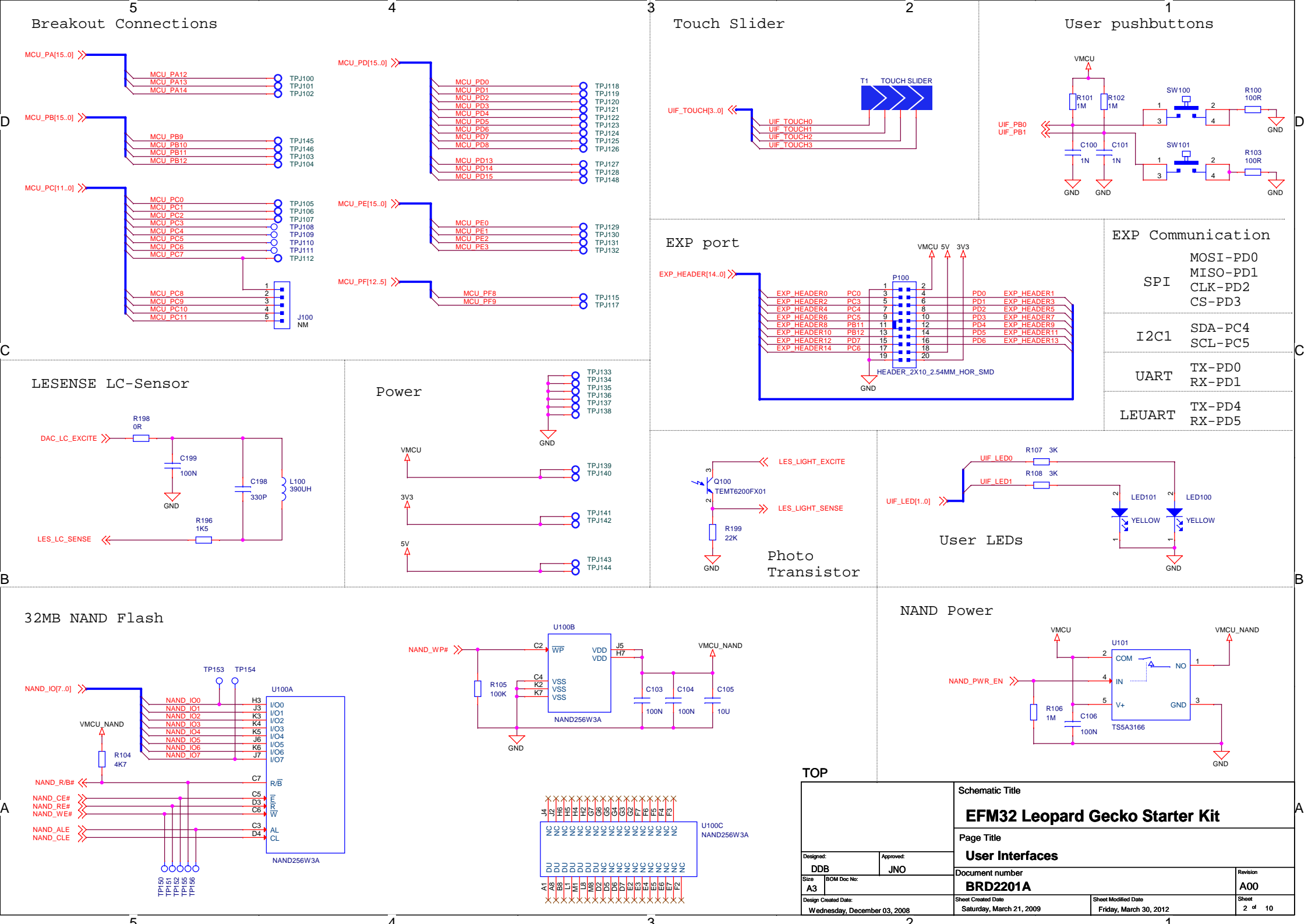
Revision History

Rev.	Description
A00	Initial version for series production

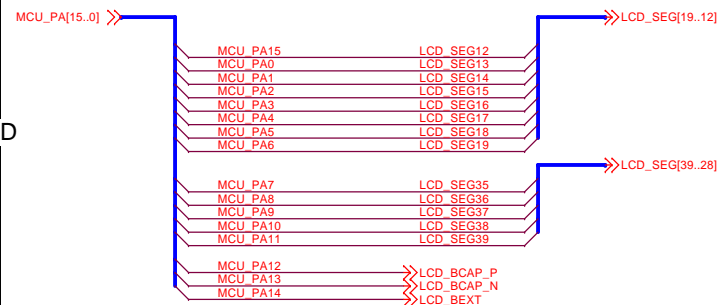


TOP

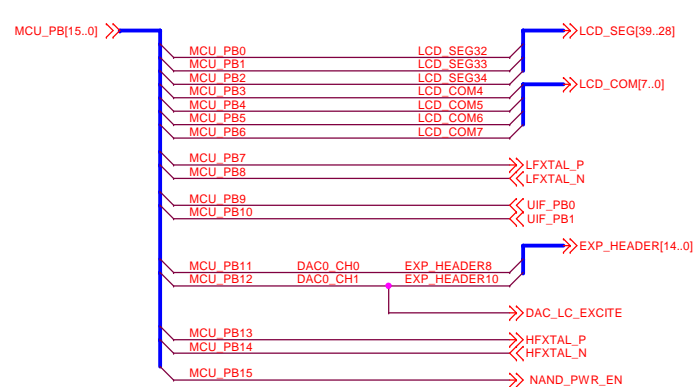
		Schematic Title	
		EFM32 Leopard Gecko Starter Kit	
		Page Title	
		Title Page	
Designed: DDB	Approved: JNO	Document number BRD2201A	Revision A00
Size A3	BOM Doc No:	Sheet Created Date Saturday, March 21, 2009	Sheet Modified Date Friday, March 30, 2012
Design Created Date: Wednesday, December 03, 2008		Sheet 1 of 10	



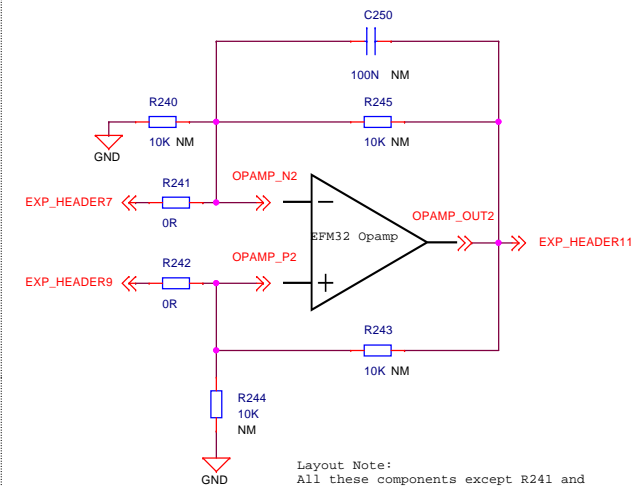
PA Connections



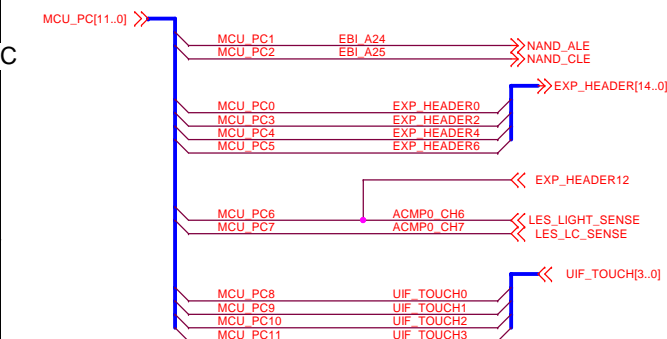
PB Connections



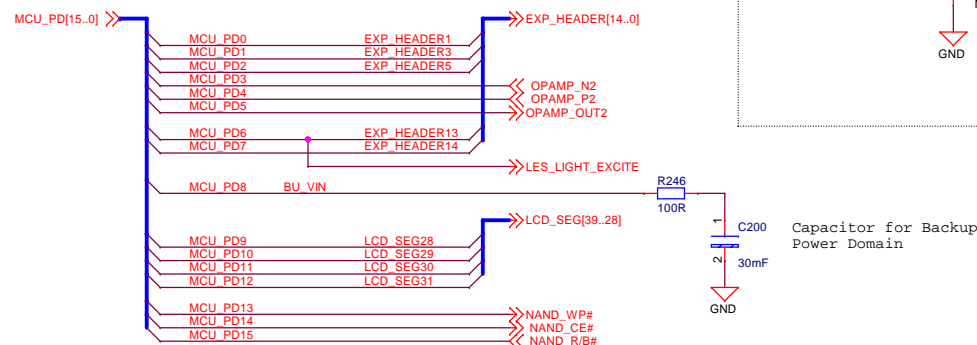
OPAMP Connection Footprint



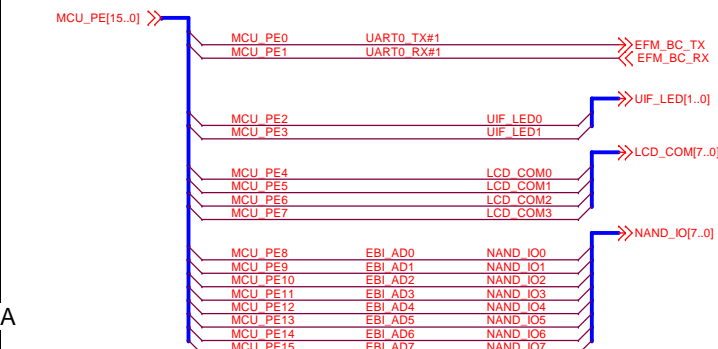
PC Connections



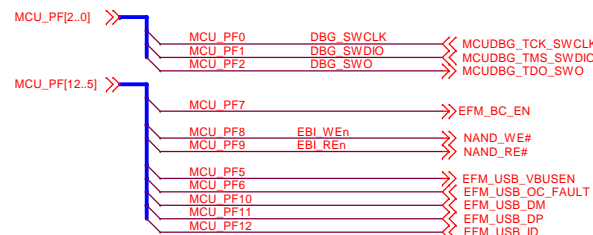
PD Connections



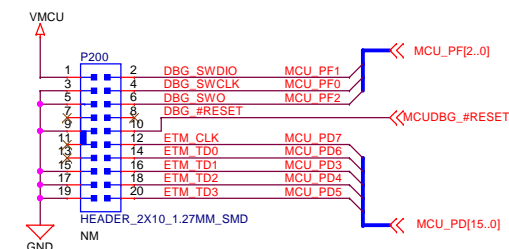
PE Connections



PF Connections

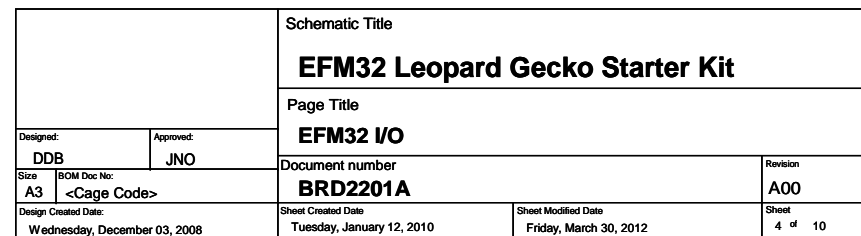


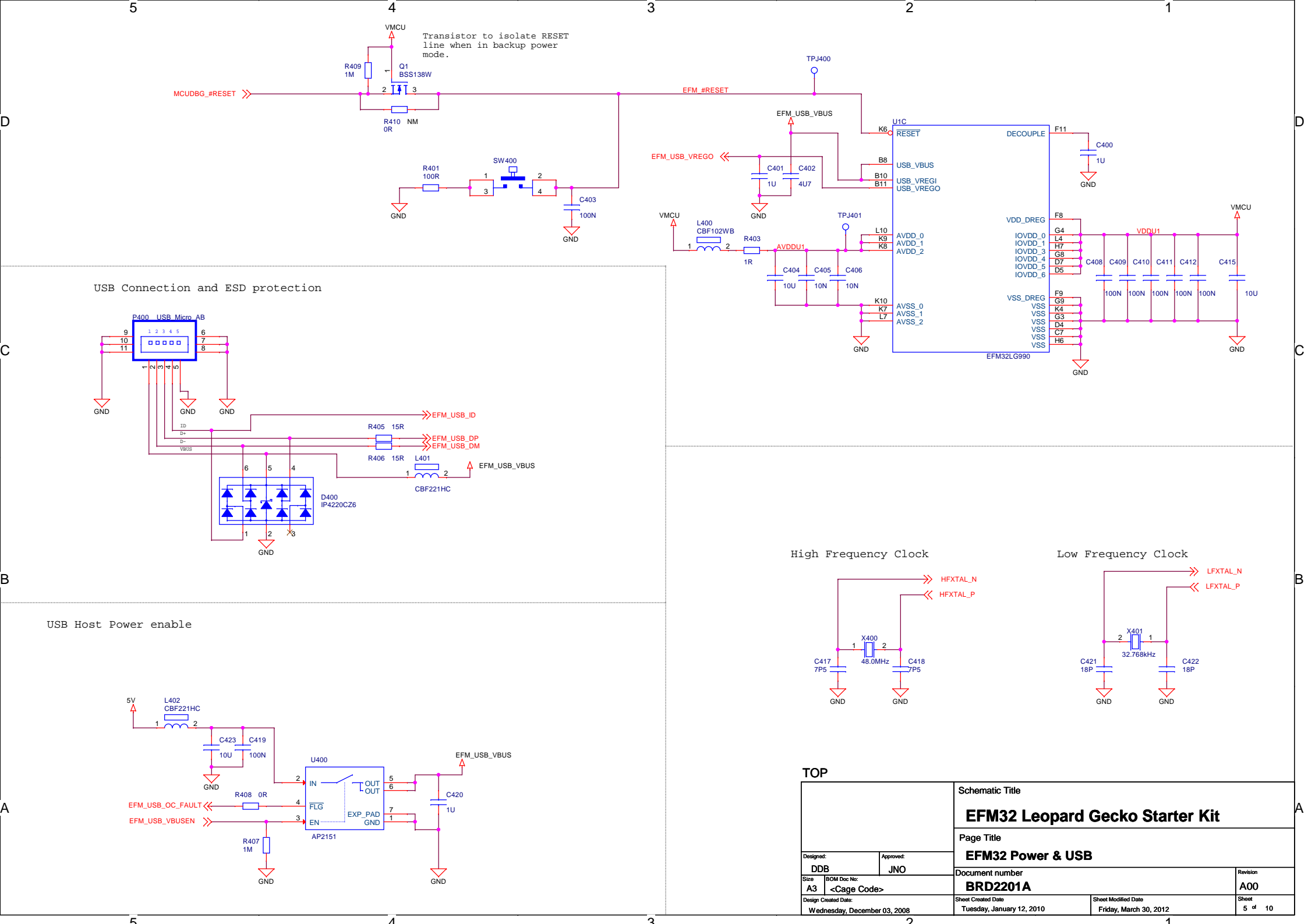
19-pin JTAG/SWD and Trace connector footprint
(reverse side)

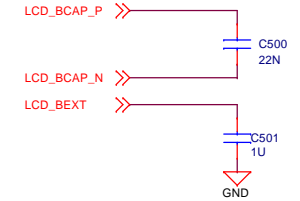
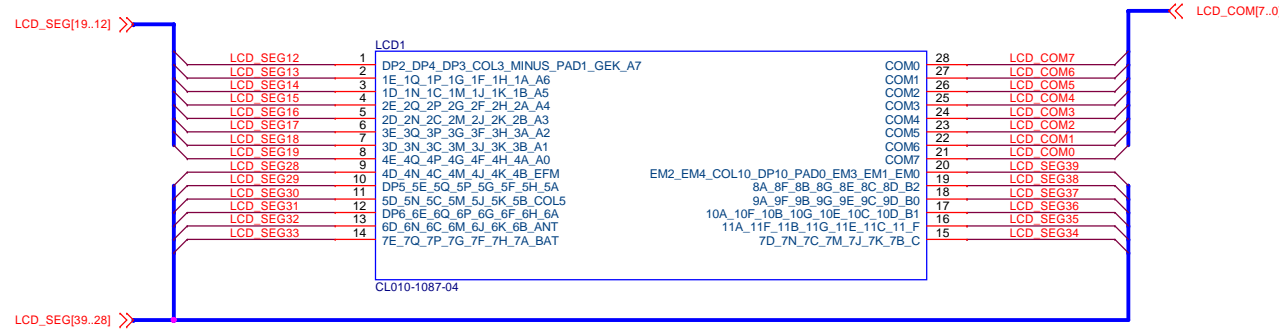


[TOP](#)

		Schematic Title	
		EFM32 Leopard Gecko Starter Kit	
Designed: DDB Approved: JNO		Page Title	
		Signal Assignments	
Size A3 BOM Doc No: <Cage Code>		Document number BRD2201A	Revision A00
Design Created Date: Wednesday, December 03, 2008		Sheet Created Date Friday, January 15, 2010	Sheet Modified Date Friday, March 30, 2012 Sheet 3 of 10





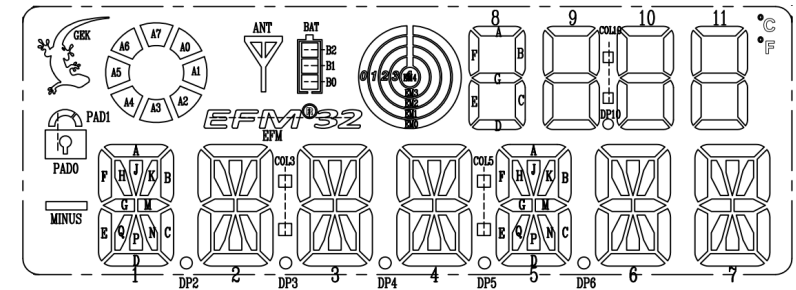


Segment names

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
---	S0	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13
COM0	DP2	1 E	1 D	2 E	2 D	3 E	3 D	4 E	4 D	DP5	5 D	DP6	6 D	7 E
COM1	DP4	1 Q	1 N	2 Q	2 N	3 Q	3 N	4 Q	4 N	5 E	5 N	6 E	6 N	7 Q
COM2	DP3	1 P	1 C	2 P	2 C	3 P	3 C	4 P	4 C	5 Q	5 C	6 Q	6 C	7 P
COM3	COL3	1 G	1 M	2 G	2 M	3 G	3 M	4 G	4 M	5 P	5 M	6 P	6 M	7 G
COM4	MINUS	1 F	1 J	2 F	2 J	3 F	3 J	4 F	4 J	5 G	5 J	6 G	6 J	7 F
COM5	PAD1	1 H	1 K	2 H	2 K	3 H	3 K	4 H	4 K	5 F	5 K	6 F	6 K	7 H
COM6	GEK	1 A	1 B	2 A	2 B	3 A	3 B	4 A	4 B	5 H	5 B	6 H	6 B	7 A
COM7	A7	A6	A5	A4	A3	A2	A1	A0	EFM	5 A	COL5	6 A	ANT	BAT

PIN	15	16	17	18	19	20	21	22	23	24	25	26	27	28
---	S14	S15	S16	S17	S18	S19	COM7	COM6	COM5	COM4	COM3	COM2	COM1	COM0
COM0	7 D	11 A	10 A	9 A	8 A	EM2								COM0
COM1	7 N	11 F	10 F	9 F	8 F	EM4							COM1	
COM2	7 C	11 B	10 B	9 B	8 B	COL10						COM2		
COM3	7 M	11 G	10 G	9 G	8 G	DP10					COM3			
COM4	7 J	11 E	10 E	9 E	8 E	PAD0				COM4				
COM5	7 K	11 C	10 C	9 C	8 C	EM3		COM5						
COM6	7 B	11 D	10 D	9 D	8 D	EM1		COM6						
COM7	°C	°F	B1	B0	B2	EM0	COM7							

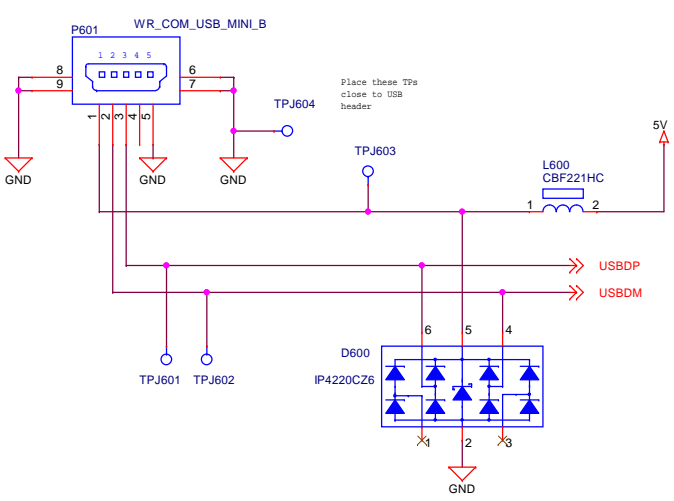
Segment placement



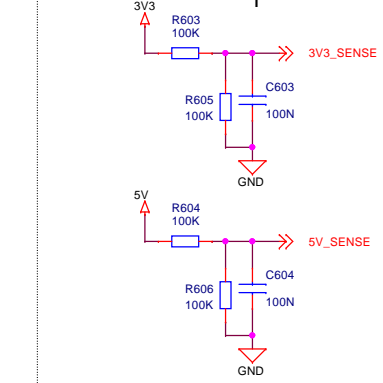
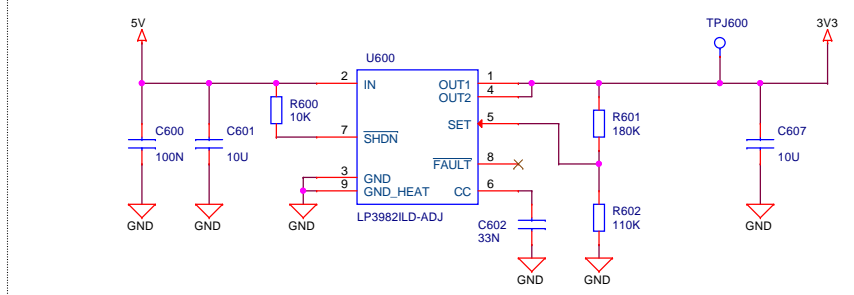
TOP

		Schematic Title	
		EFM32 Leopard Gecko Starter Kit	
		Page Title	
		LCD	
Designed: DDB		Approved: JNO	
Size: A3		Document number: BRD2201A	
Design Created Date: Wednesday, December 03, 2008		Sheet Created Date: Tuesday, January 12, 2010	
		Sheet Modified Date: Friday, March 30, 2012	
		Revision: A00	
		Sheet: 6 of 10	

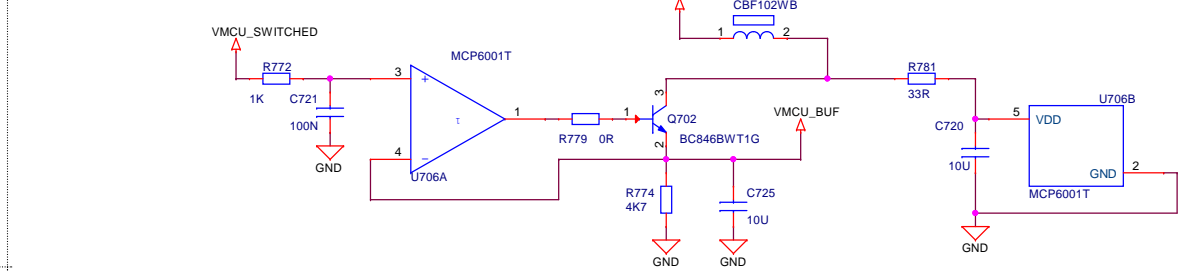
Power input



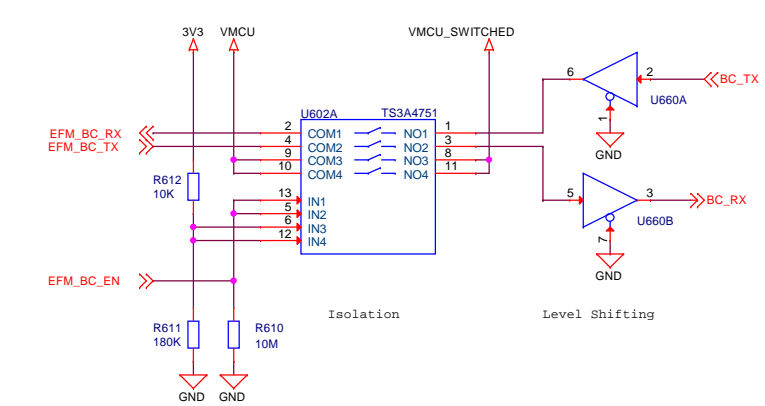
3V3 Regulator



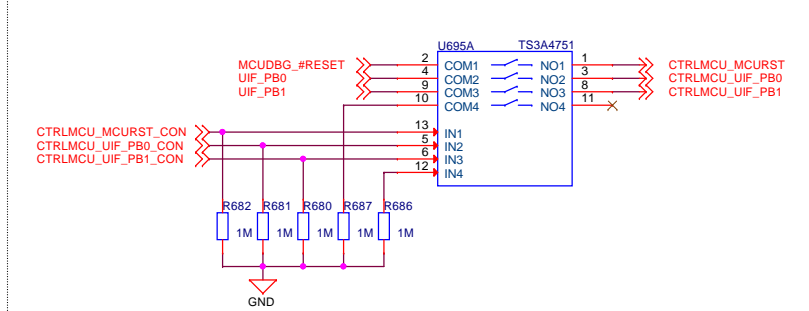
VMCU_DBG power



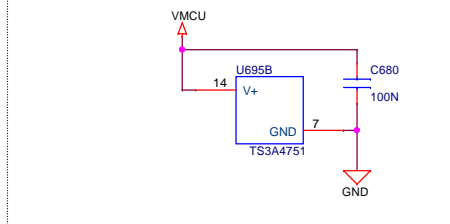
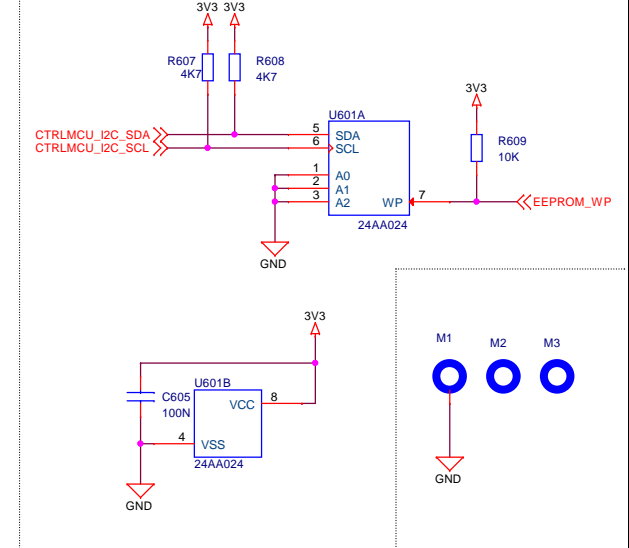
VMCU switch



User input to control mcu

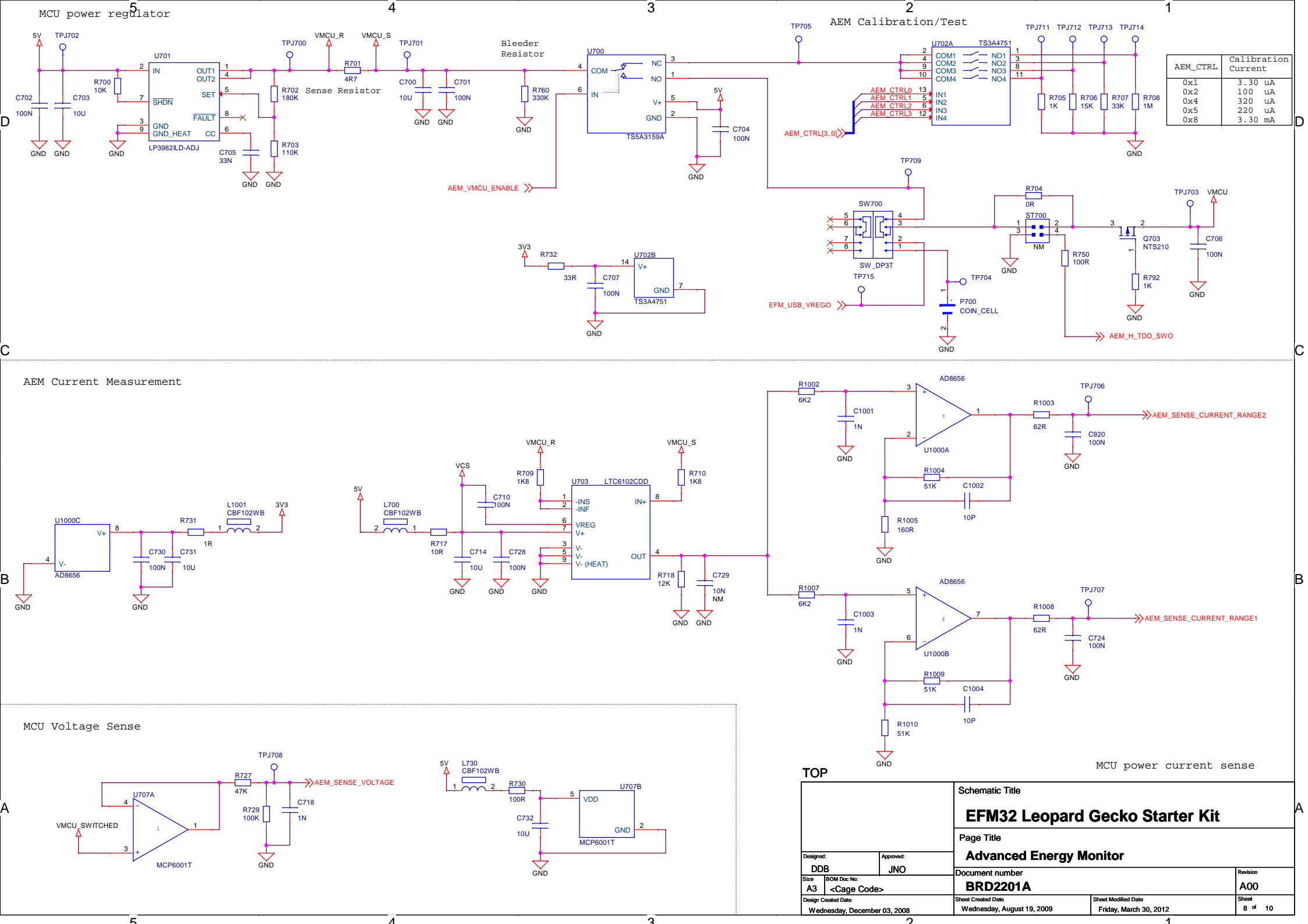


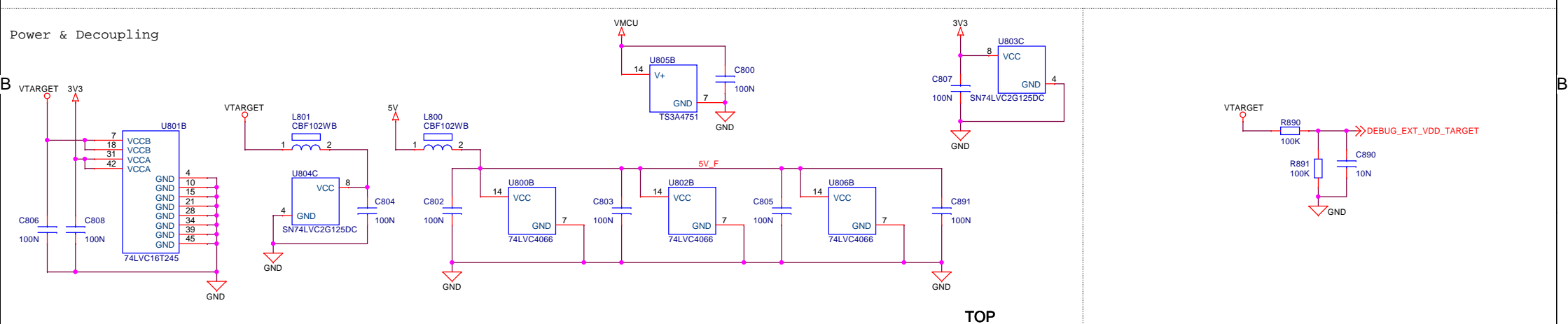
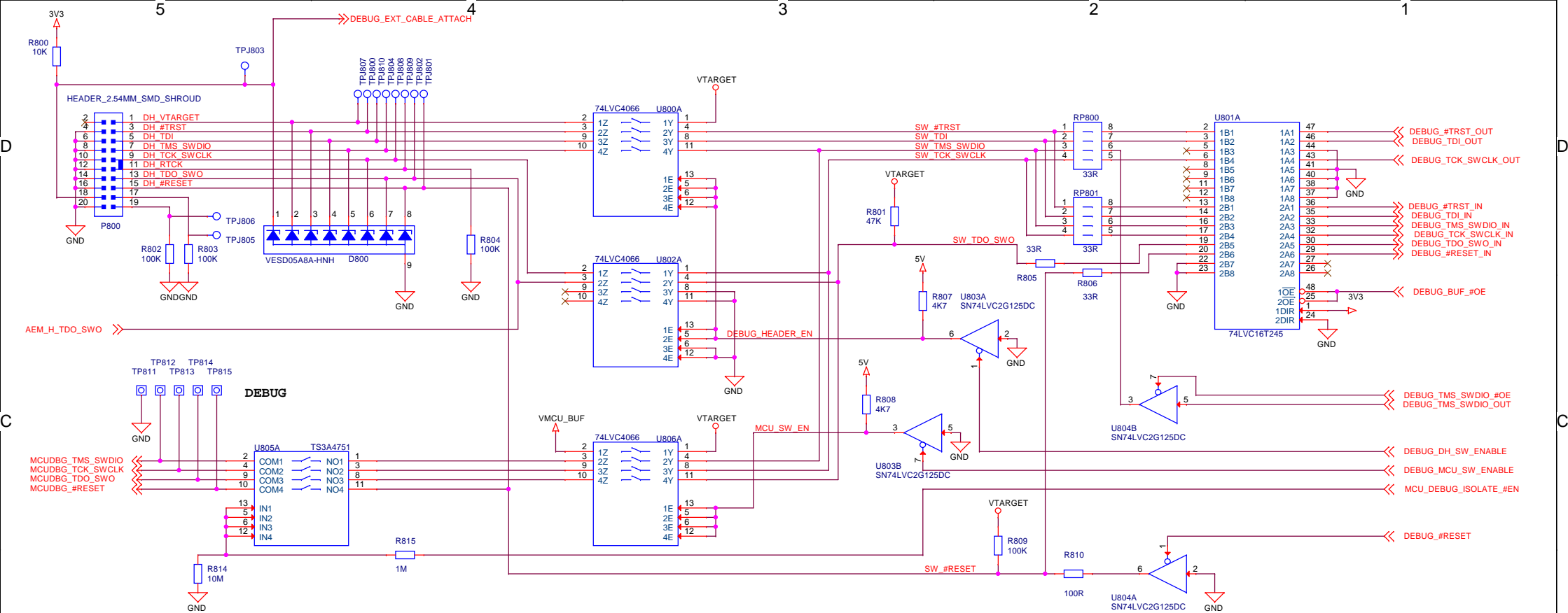
CTRLMCU EEPROM



TOP

Schematic Title		EFM32 Leopard Gecko Starter Kit	
Page Title		Power & Misc	
Document number		BRD2201A	
Design Created Date		Saturday, March 21, 2009	
Sheet Created Date		Friday, March 30, 2012	
Revision		A00	
Sheet		7 of 10	

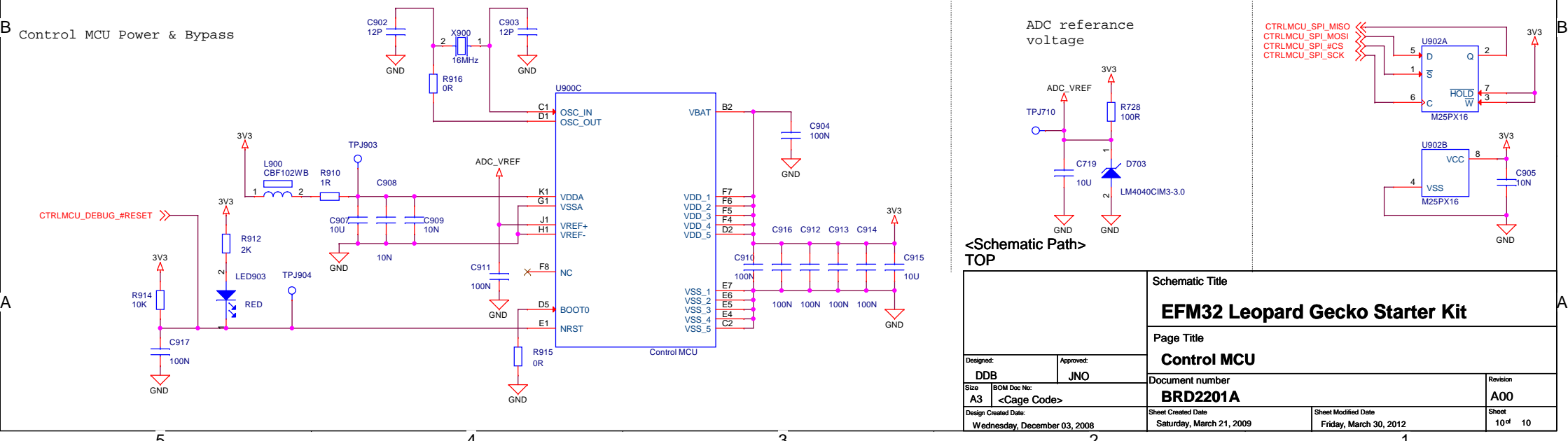
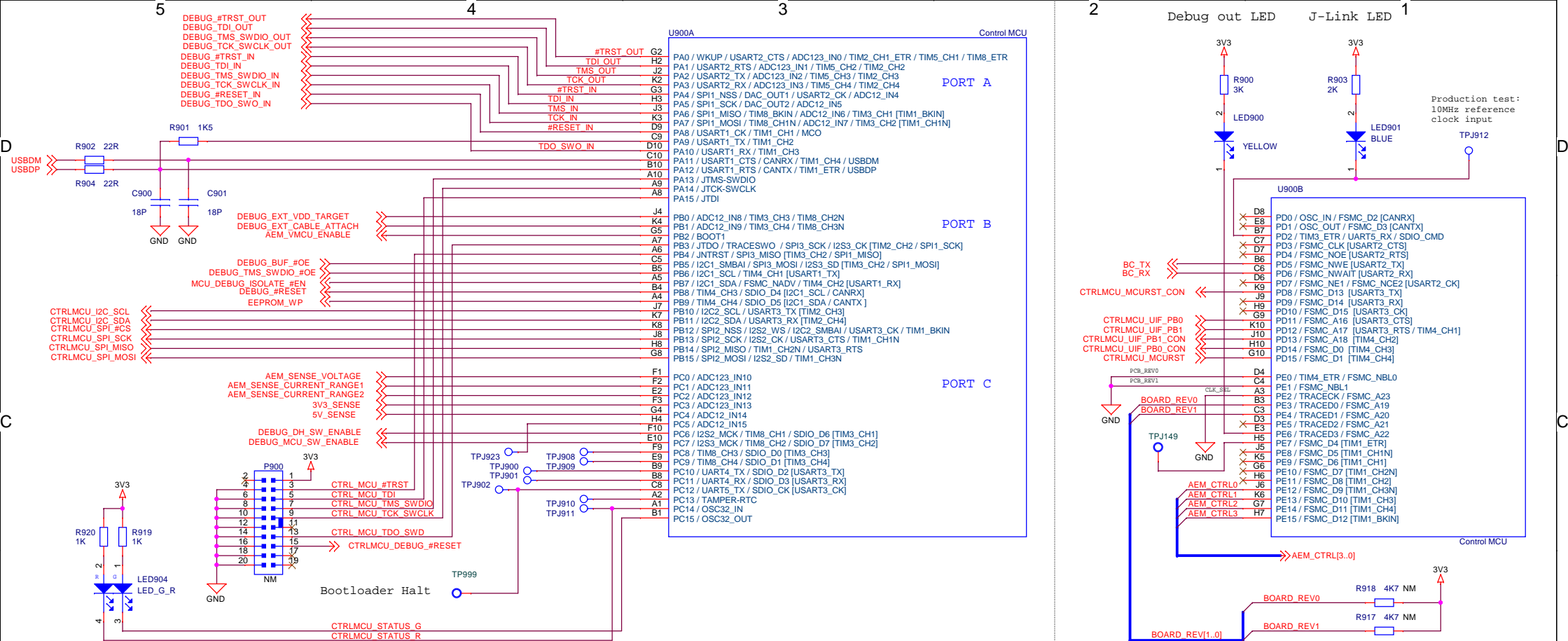




A

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	Disconnected	VMCU
Debug In	1	1	1	1	VMCU	VMCU
Debug Off	1	1	1	0	-	-

Designed: DDB		Approved: JNO		Schematic Title	
				EFM32 Leopard Gecko Starter Kit	
Size A3		BOM Doc No: <Cage Code>		Page Title	
				Debug Interface	
Design Created Date: Saturday, March 21, 2009		Document number BRD2201A		Revision A00	
Wednesday, December 03, 2008		Sheet Created Date Saturday, March 21, 2009		Sheet Modified Date Friday, March 30, 2012	
				Sheet 9 of 10	



<div> <div></div> <div></div> </div>		Schematic Title	
		<div>EFM32 Leopard Gecko Starter Kit</div>	
		<div>Page Title</div> <div>Control MCU</div>	
<div>Designed:</div> <div>DDB</div>		<div>Approved:</div> <div>JNO</div>	
<div>Size</div> <div>A3</div>		<div>BOM Doc No:</div> <div><Cage Code></div>	
<div>Design Created Date:</div> <div>Wednesday, December 03, 2008</div>		<div>Document number</div> <div>BRD2201A</div>	
		<div>Sheet Created Date</div> <div>Saturday, March 21, 2009</div>	<div>Sheet Modified Date</div> <div>Friday, March 30, 2012</div>
			<div>Sheet</div> <div>10^{of} 10</div>