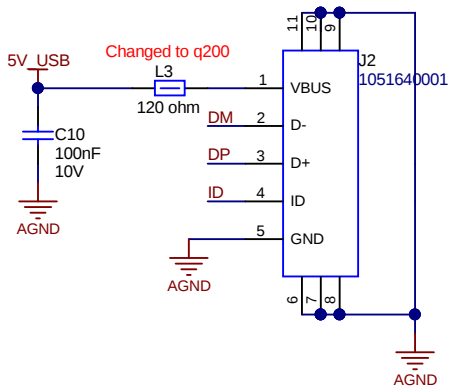
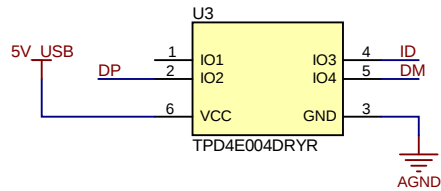


FTDI

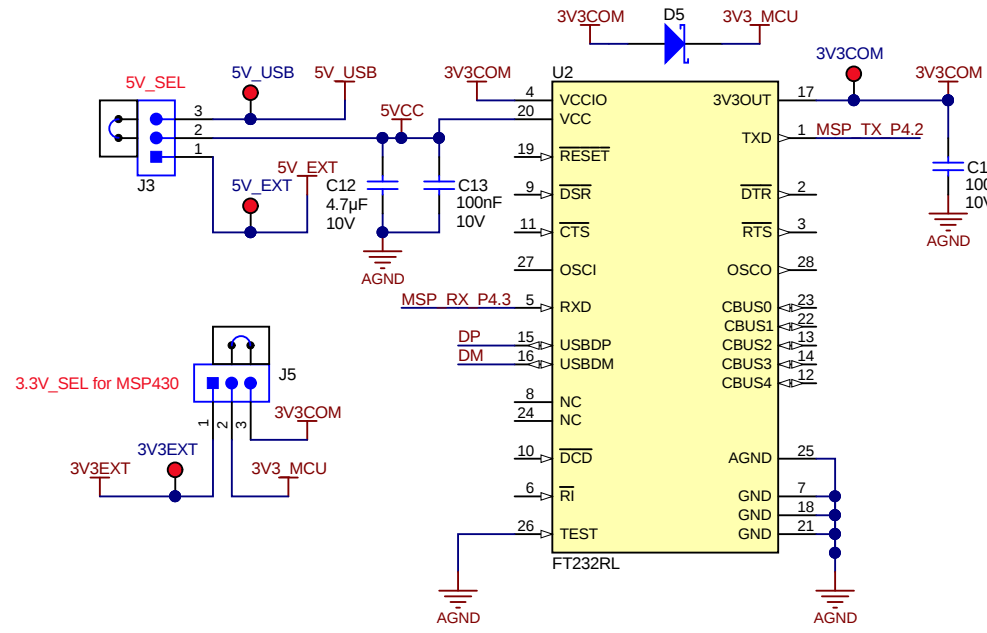
Micro USB Connector



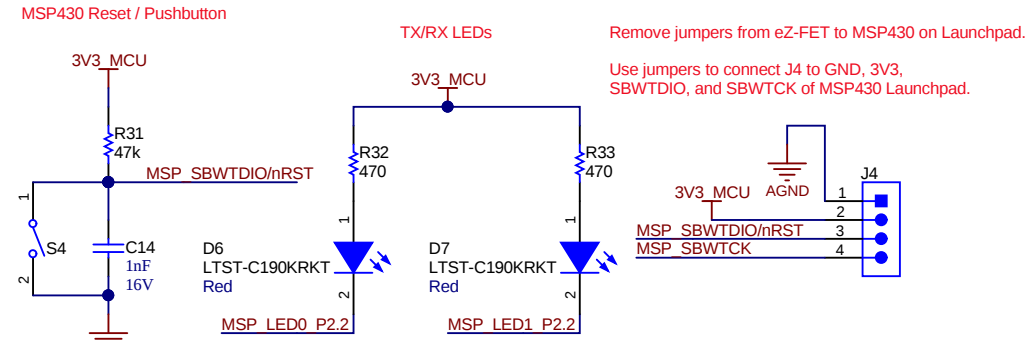
USB ESD Protection



FTDI REGULATOR



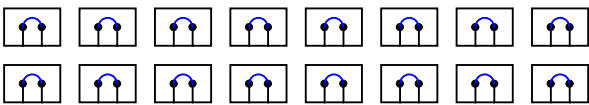
MCU PROGRAMMING



MSP430FR2355

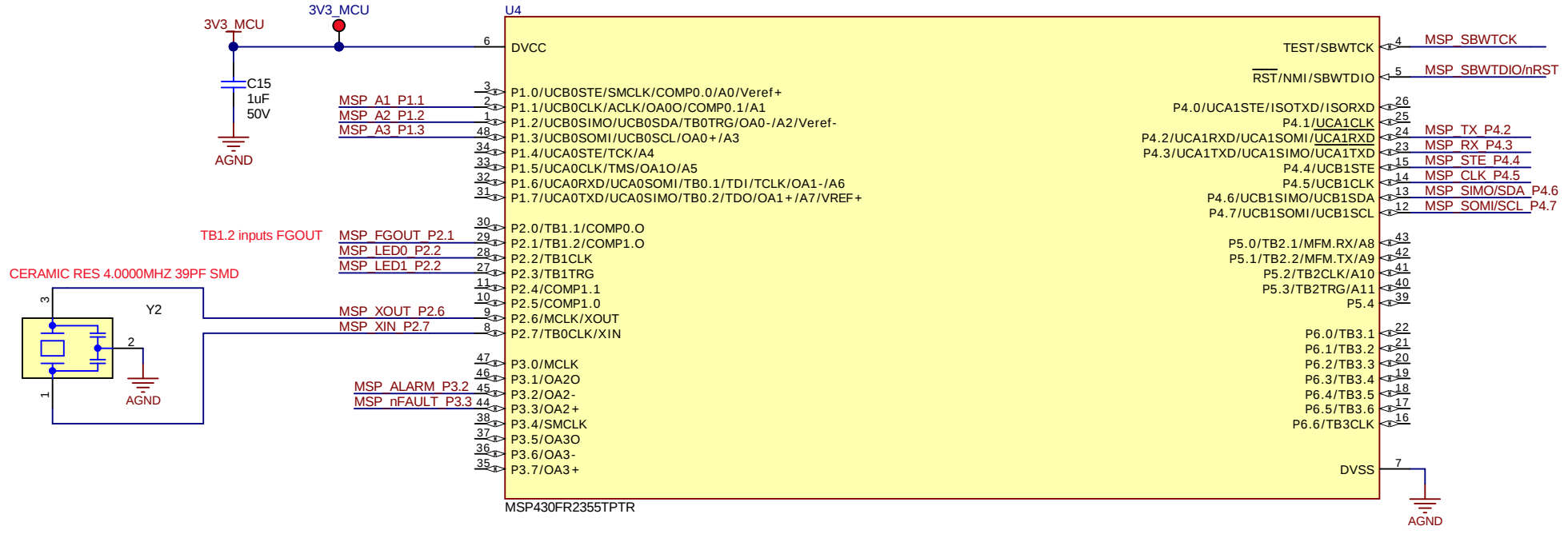
MSP430FR2355

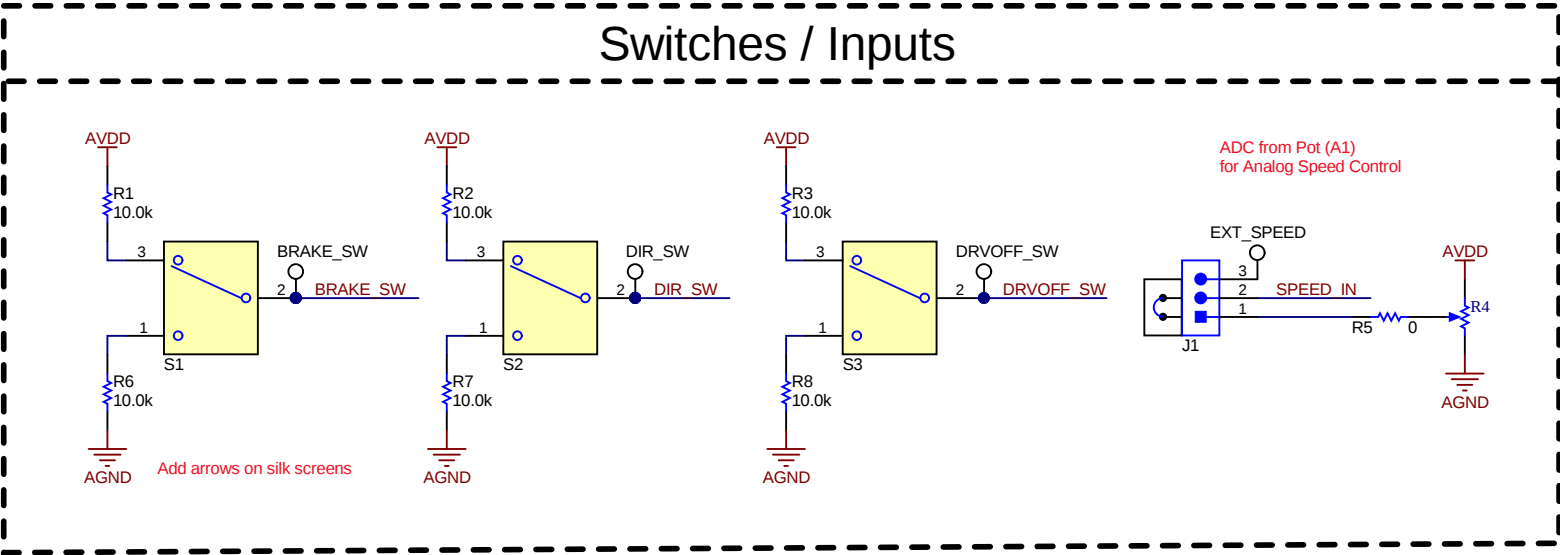
Signal Bank for connecting MSP430 + MCx8316A



To MCx8316A				To MSP430FR2355			
AGND	1	3	2	AGND	1	3	
VBK	3	4	4	MSP_FGOUT_P2.1	6	6	
FGOUT	5	5	6	MSP_nFAULT_P3.3	8	8	
nFAULT	7	7	10	MSP_ALARM_P3.2	12	12	
ALARM	9	9	14	MSP_A1_P1.1	16	16	
MCX_DACOUT1/X1	11	11	18	MSP_A2_P1.2	20	20	
MCX_DACOUT2/X2	13	13	22	MSP_A3_P1.3	24	24	
DACOUT2/SOX	15	15	26	MSP_STE_P4.4	28	28	
	17	17	30	MSP_CLK_P4.5	32	32	
MCX_SDA	21	21	43	MSP_SIMO/SDA_P4.6	47	47	
MCX_SCL	23	23	42	MSP_SOMI/SCL_P4.7	48	48	
SPEED	25	25	41				
BRAKE	27	27	40				
DIR	29	29	39				
DRVOFF	31	31	22				
			21				
			20				
			19				
			18				
			17				
			16				
			15				
			14				
			13				
			12				
			11				
			10				
			9				
			8				
			7				
			6				
			5				
			4				
			3				
			2				
			1				

Populate jumpers to communicate onboard MSP430FR2355 to the MCx8316A or depopulate jumpers to use standalone MSP430 or MCx8316A.





Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Orderable: MCF8316AEVM	Designed for: Public Release	Mod. Date: 2/11/2021
TID #: N/A	Project Title: MCx8316AEVM	
Number: MD038	Rev: A1	Sheet Title:
SVN Rev: f1f76d0dc381a1a7a9d26c72b54c1990a1b209601		Sheet: 2 of 5
Drawn By:	File: MD038_CONTROL_SchDoc	Size: B
Engineer: Eric Chen	Contact: http://www.ti.com/support	

A

B

C

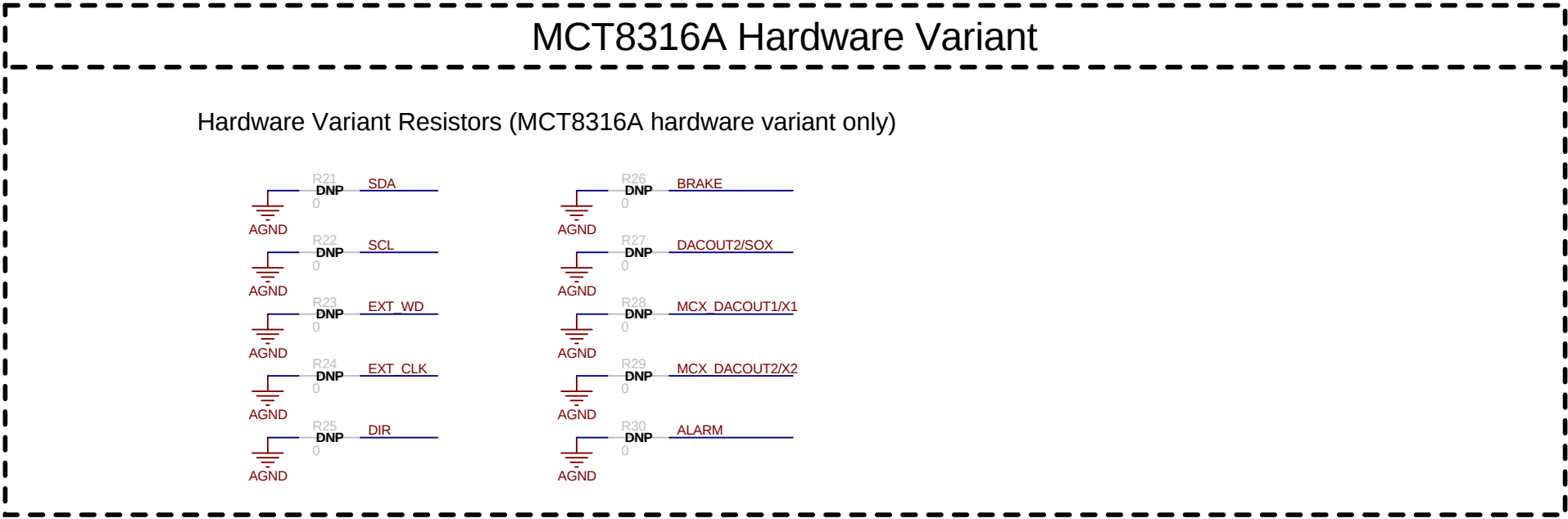
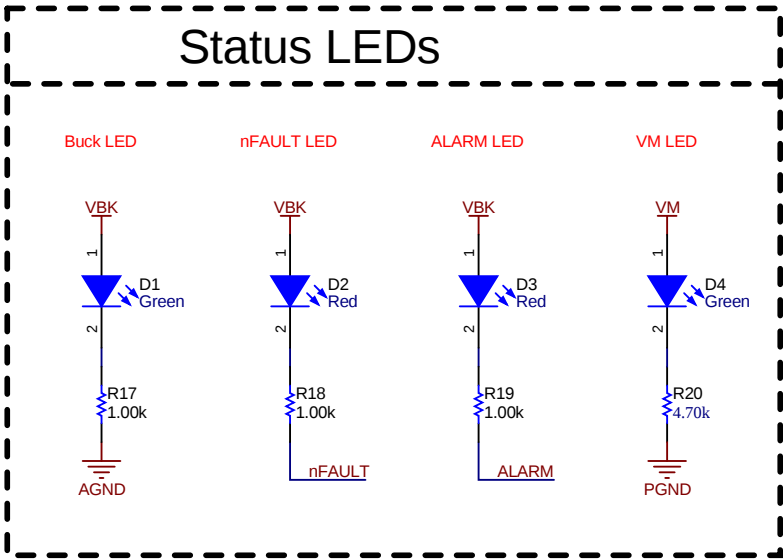
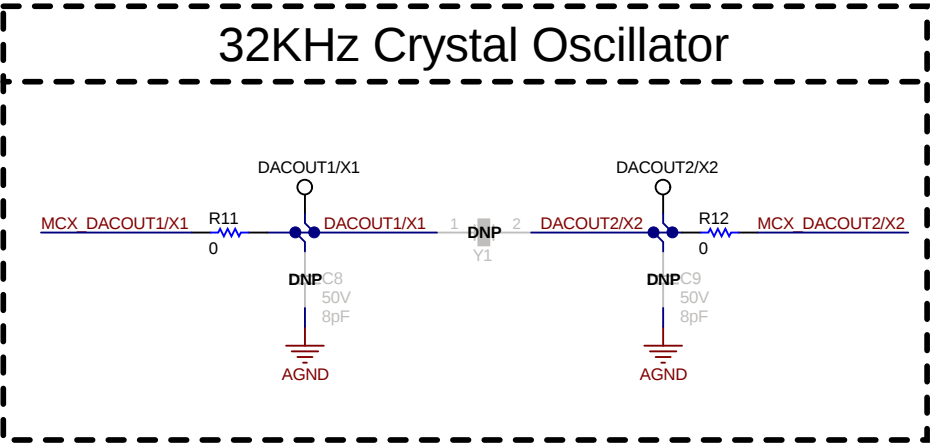
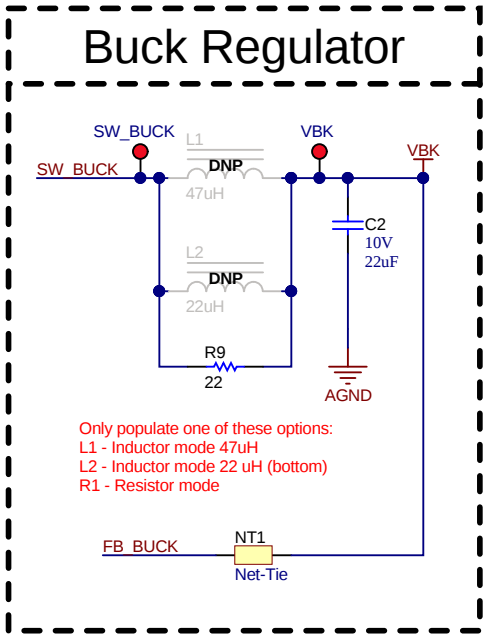
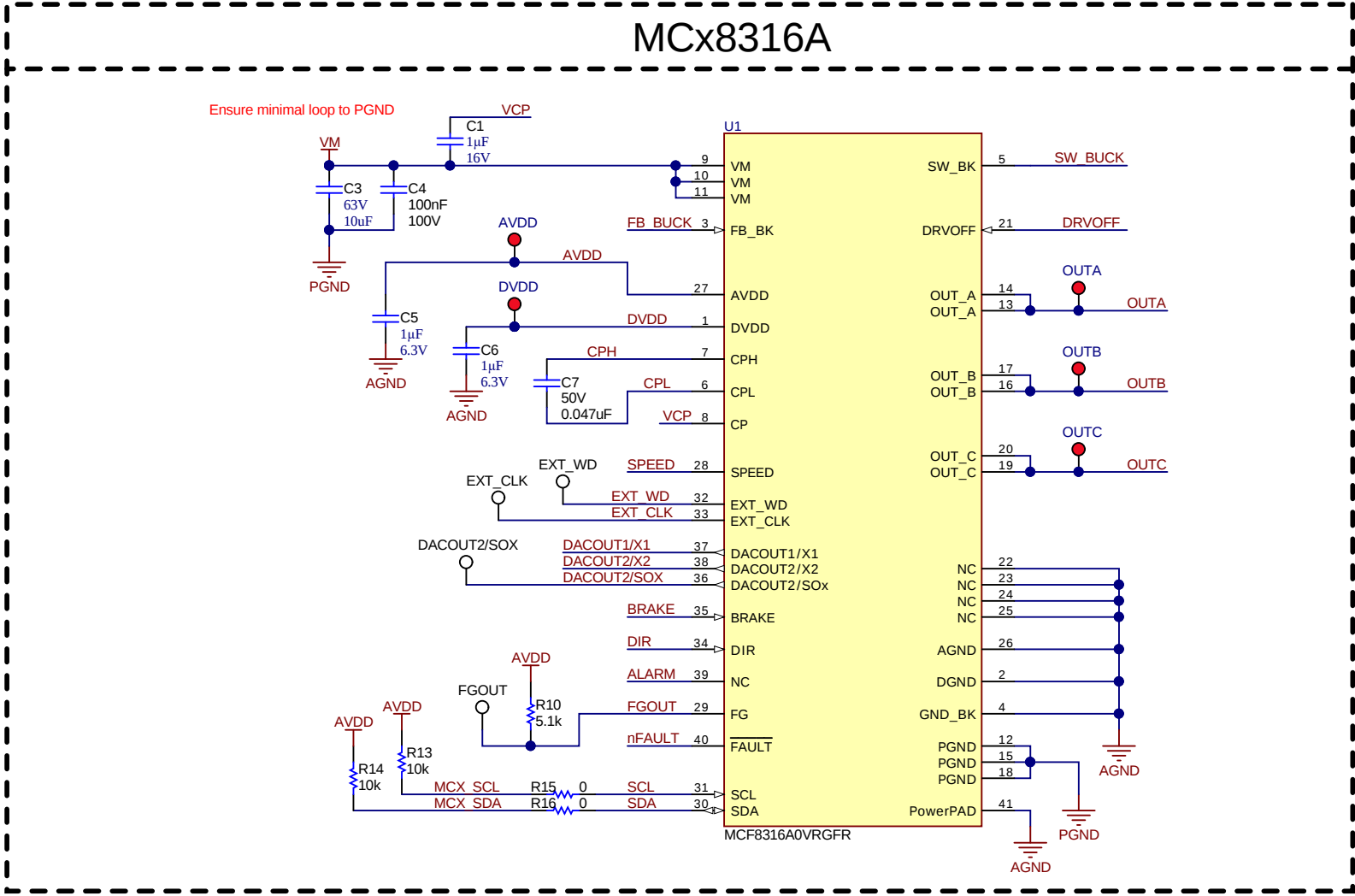
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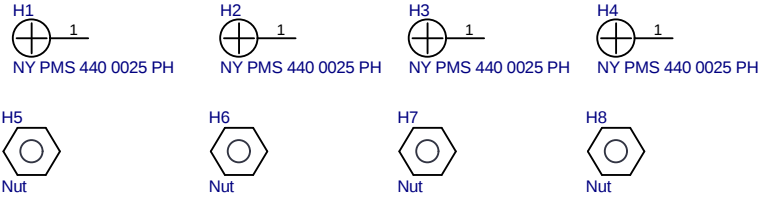
A

B

C

D





PCB Number: MD038
PCB Rev: A1

PCB
LOGO
Texas Instruments



PCB
LOGO
FCC disclaimer

PCB
LOGO
WEEE logo

LBL1
PCB Label
THT-14-423-10



CAUTION HOT SURFACE



CAUTION HOT SURFACE

Variant/Label Table	
Variant	Label Text
001	MCF8316AEVM I2C
002	MCF8316AEVM I2C Q1
003	MCT8316AEVM I2C
004	MCT8316AEVM HW
005	MCT8316AEVM I2C Q1
006	MCT8316AEVM HW Q1

ZZ1
Label Assembly Note
This Assembly Note is for PCB labels only

ZZ2
Assembly Note
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
Assembly Note
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4
Assembly Note
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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Orderable: MCF8316AEVM		Designed for: Public Release	Mod. Date: 2/15/2021
TID #: N/A		Project Title: MCx8316AEVM	
Number: MD038	Rev: A1	Sheet Title:	
SVN Rev: f1f76d0dc381a1a7a9d26c72b54c1d90a1b209601		Assembled by: 11209601	Sheet: 5 of 5
Drawn By:		File: MD038_HARDWARE.SchDoc	Size: B
Engineer: Eric Chen		Contact: http://www.ti.com/support	