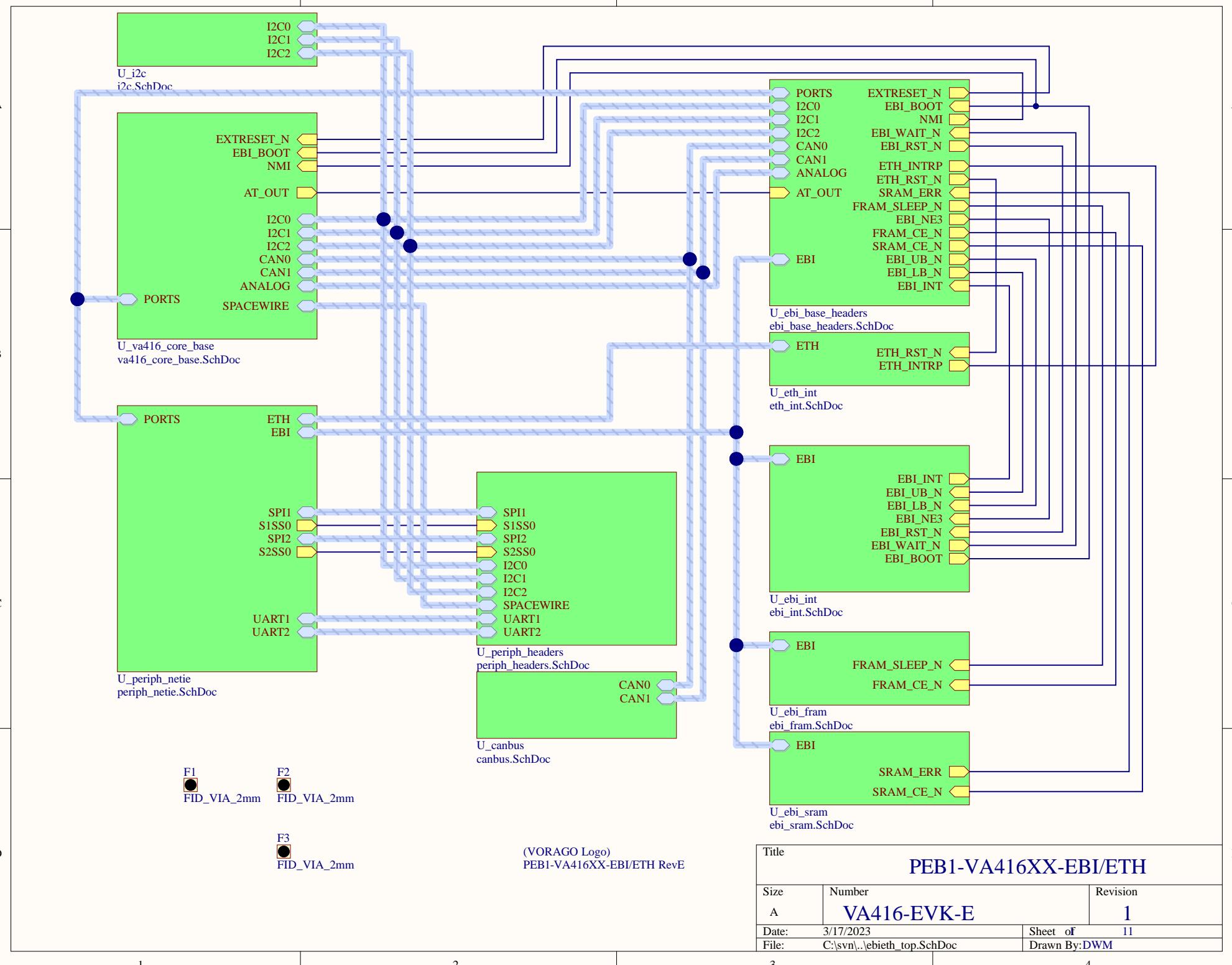
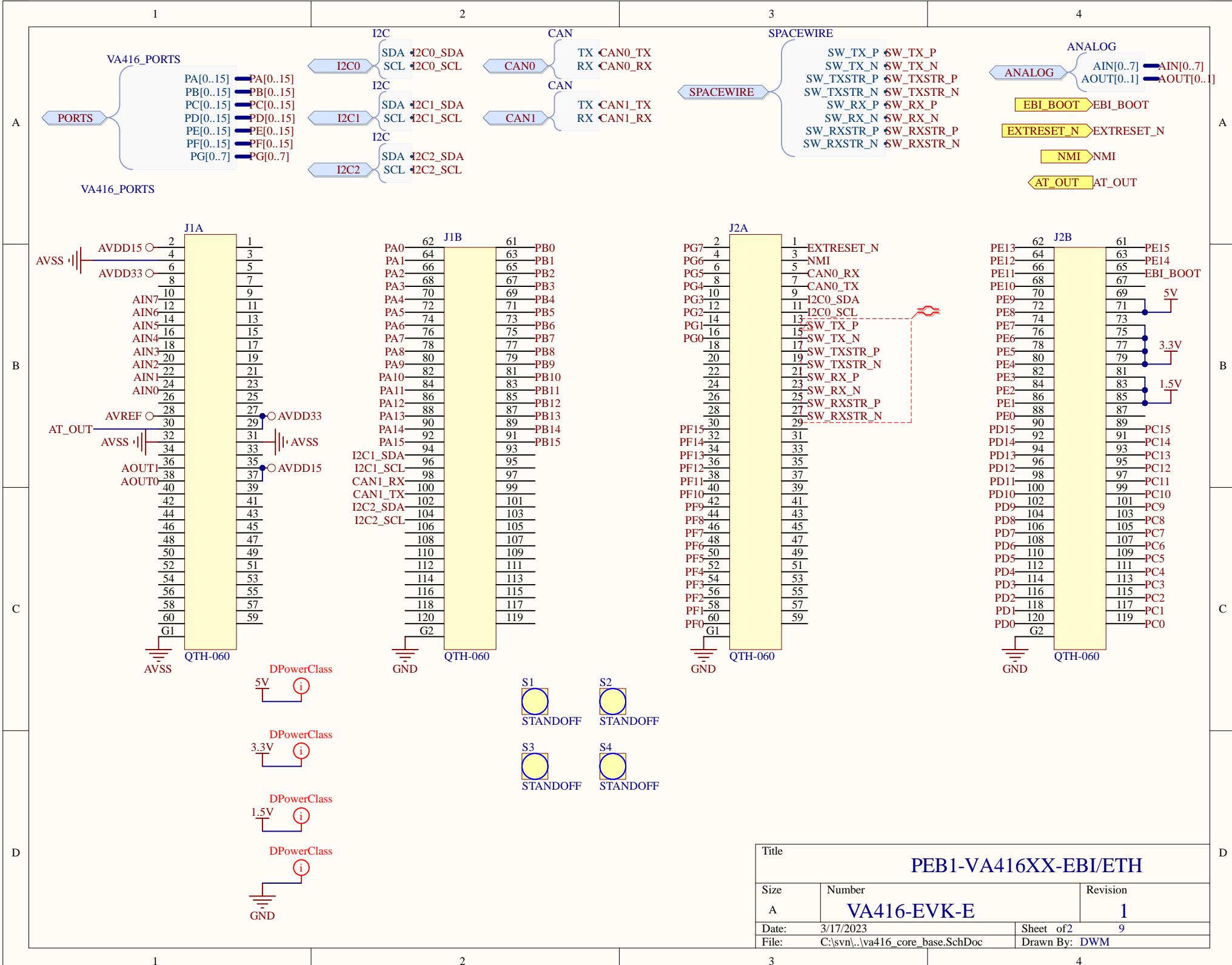


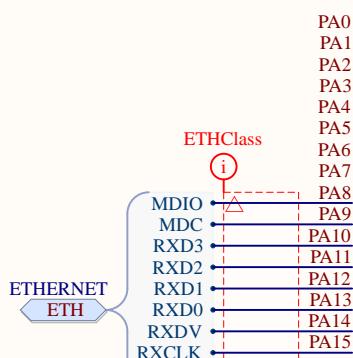
1 2 3 4



1 2 3 4



A

**EBIIClass**

EBI_A14	PD0
EBI_A15	PD1
EBI_A16	PD2
EBI_A17	PD3
EBI_A18	PD4
EBI_A19	PD5
EBI_A20	PD6
EBI_A21	PD7
EBI_A22	PD8
EBI_A23	PD9

PG0
PG1
PG2
PG3
PG4
PG5
PG6
PG7

B

RXER	PB0
TXER	PB1
TXCLK	PB2
TXEN	PB3
TXD0	PB4
TXD1	PB5
TXD2	PB6
TXD3	PB7
COL	PB8
CRS	PB9
PPS	PB10
	PB11
	PB12
	PB13
	PB14
	PB15

EBI_D9	PE0
EBI_D8	PE1
EBI_D7	PE2
EBI_D6	PE3
EBI_D5	PE4
EBI_D4	PE5
EBI_D3	PE6
EBI_D2	PE7
EBI_D1	PE8
EBI_D0	PE9

Just logically interconnecting nets

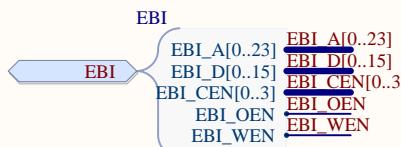
EBI_OEN	PF0
EBI_WEN	PF1
	PF2
	PF3
	PF4
	PF5
	PF6
	PF7
	PF8
	PF9
	PF10
	PF11
	PF12
	PF13
	PF14
	PF15

C

EBI-A0	PC0
EBI_A1	PC1
EBI_A2	PC2
EBI_A3	PC3
EBI_A4	PC4
EBI_A5	PC5
EBI_A6	PC6
EBI_A7	PC7
EBI_A8	PC8
EBI_A9	PC9
EBI_A10	PC10
EBI_A11	PC11
EBI_A12	PC12
EBI_A13	PC13
EBI_A14	PC14
EBI_A15	PC15

VA416_PORTS	
PA[0..15]	PA[0..15]
PB[0..15]	PB[0..15]
PC[0..15]	PC[0..15]
PD[0..15]	PD[0..15]
PE[0..15]	PE[0..15]
PF[0..15]	PF[0..15]
PG[0..7]	PG[0..7]

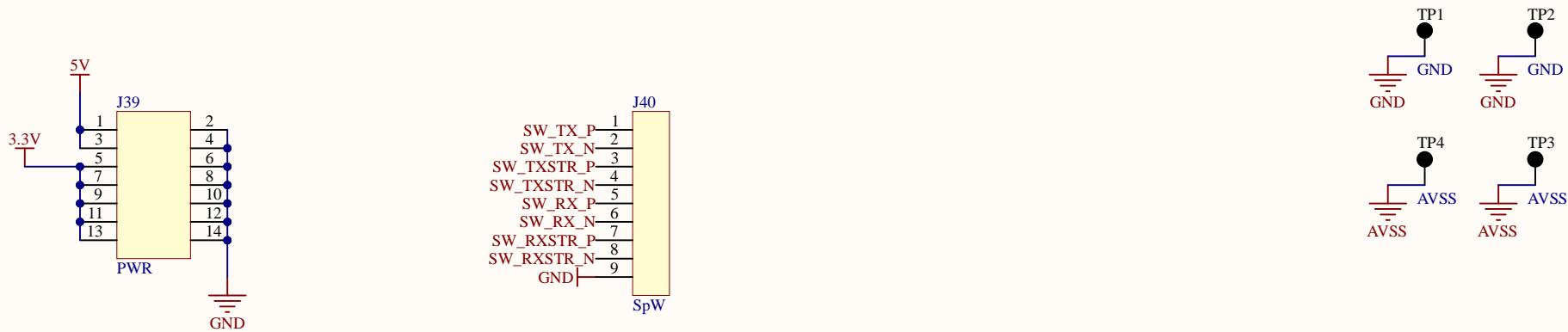
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Title		
A	Number	Revision
	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 3 9
File:	C:\svn\..\periph_netcie.SchDoc	Drawn By: DWM

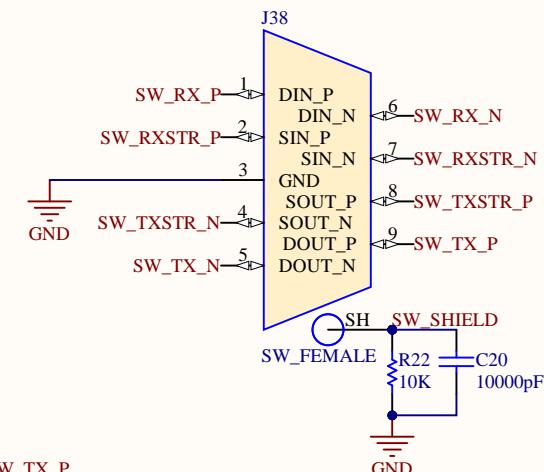
A

A



B

B



C

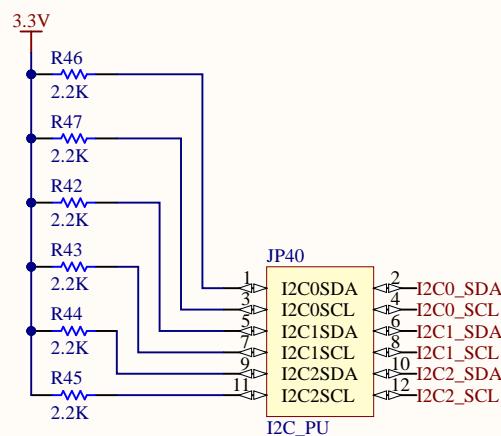
C

SPACEWIRE
SPACEWIRE

SW_TX_P SW_TX_P
SW_TX_N SW_TX_N
SW_RXSTR_P SW_RXSTR_P
SW_RXSTR_N SW_RXSTR_N
SW_RX_P SW_RX_P
SW_RX_N SW_RX_N
SW_RXSTR_P SW_RXSTR_P
SW_RXSTR_N SW_RXSTR_N

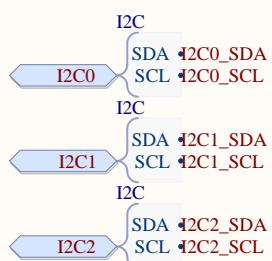
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Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 4 9
File:	C:\svn\..\periph_headers.SchDoc	Drawn By: DWM

A



B

A



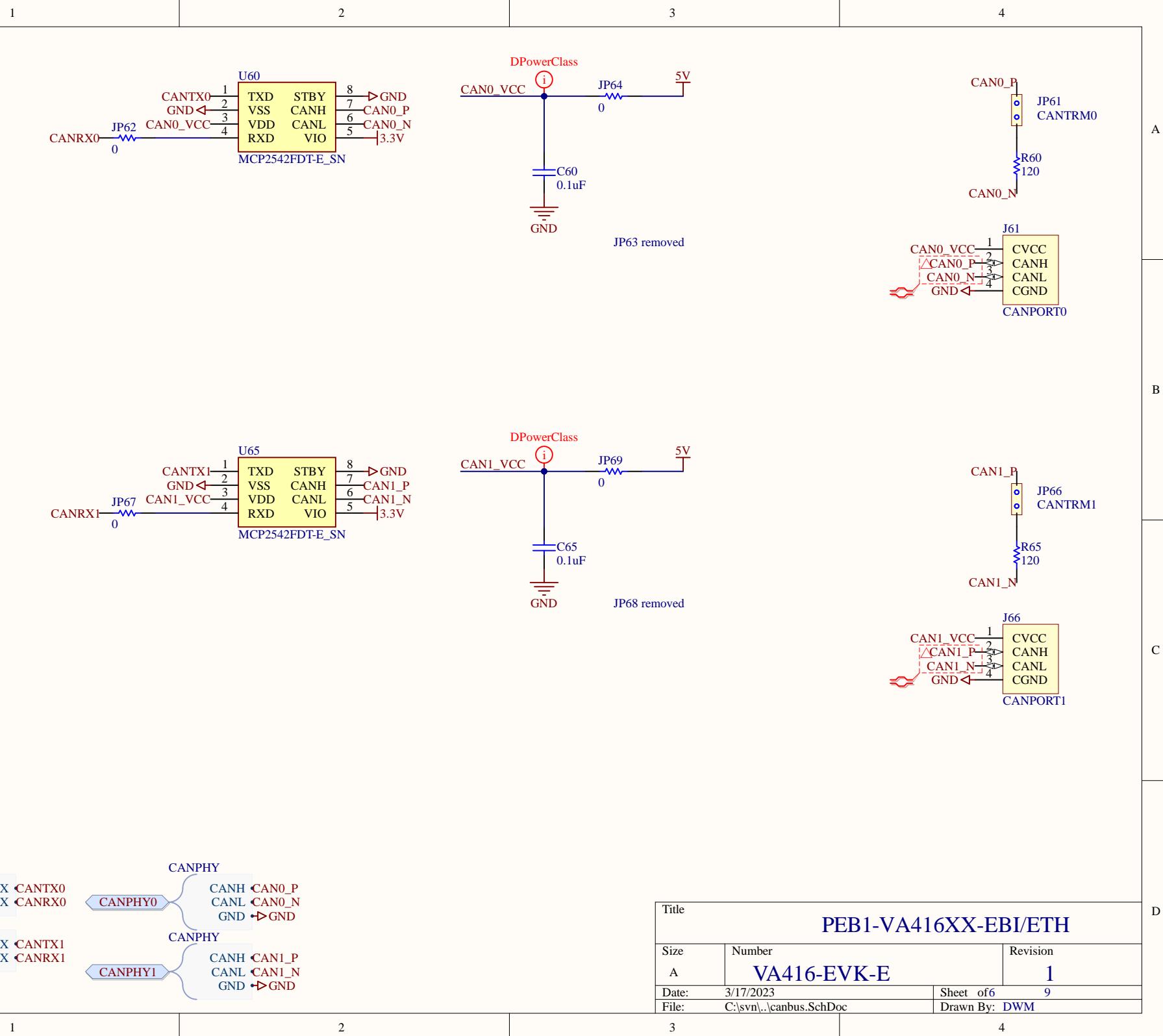
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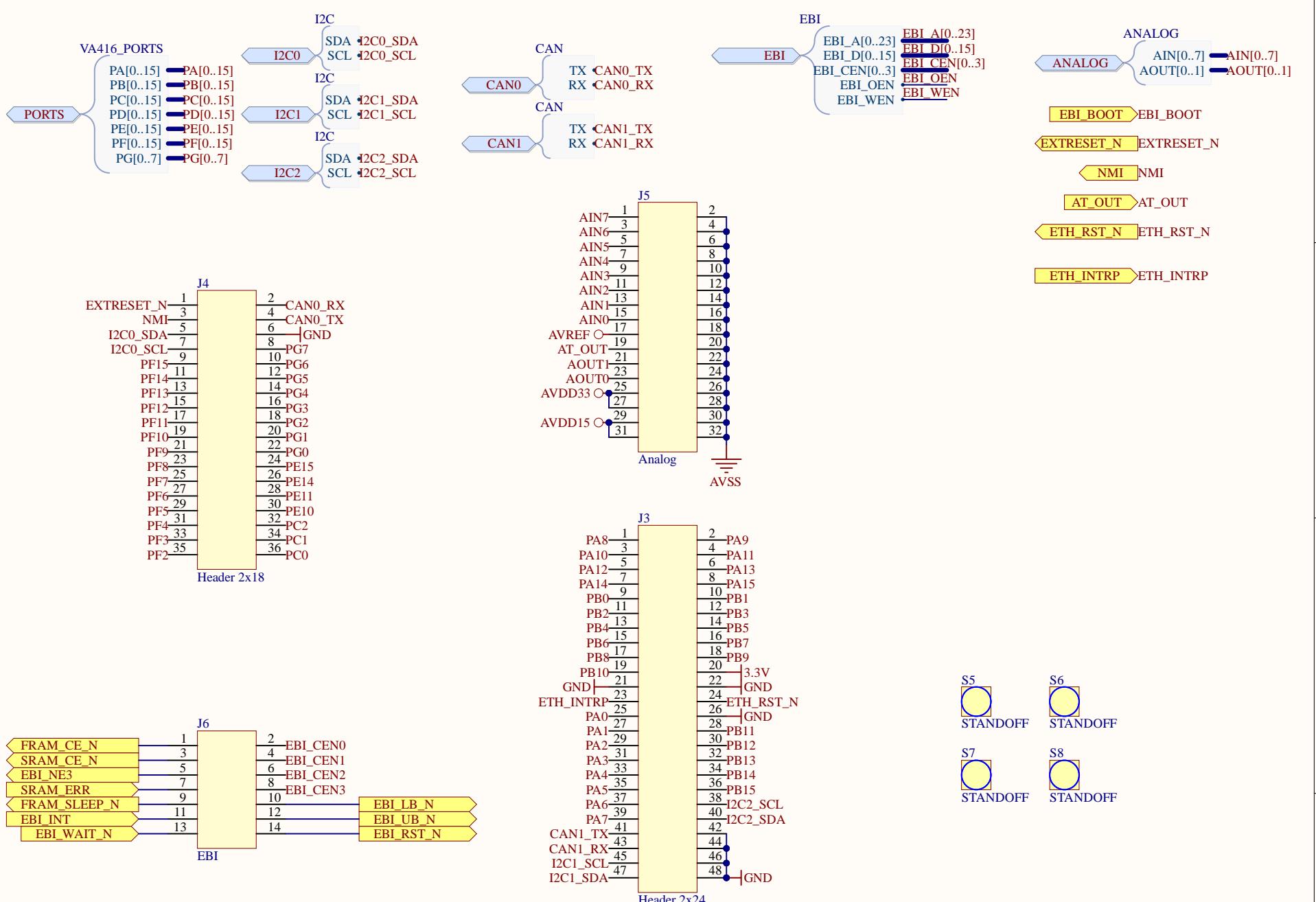
B

C

D

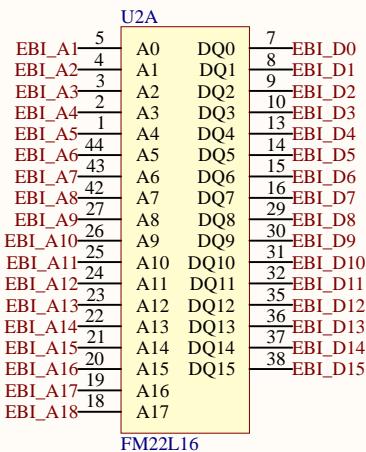
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Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 5 9
File:	C:\svn\..\i2c.SchDoc	Drawn By: DWM



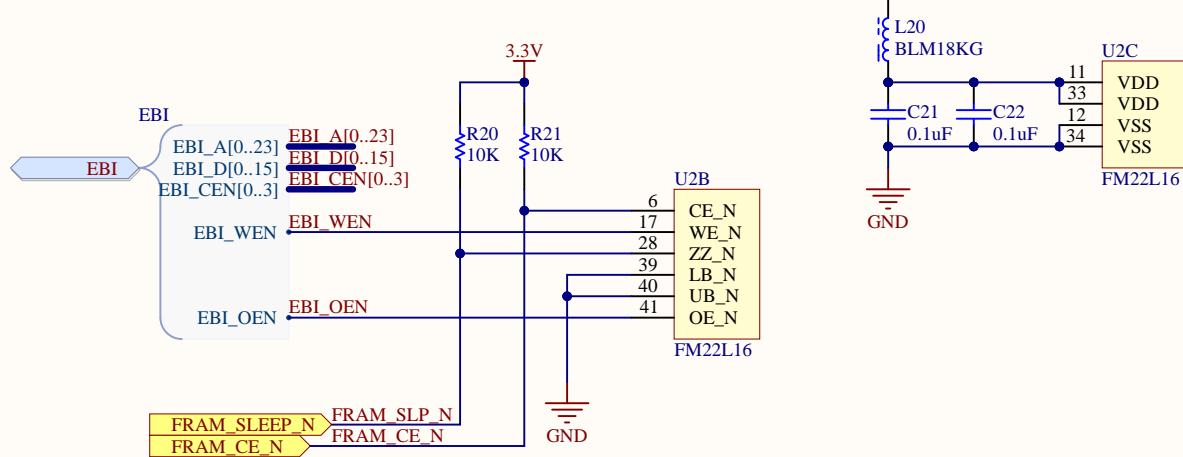


Title		PEB1-VA416XX-EBI/ETH
Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 11
File:	C:\svnl\ebi_base_headers.SchDoc	Drawn By: DWM

A



B



C

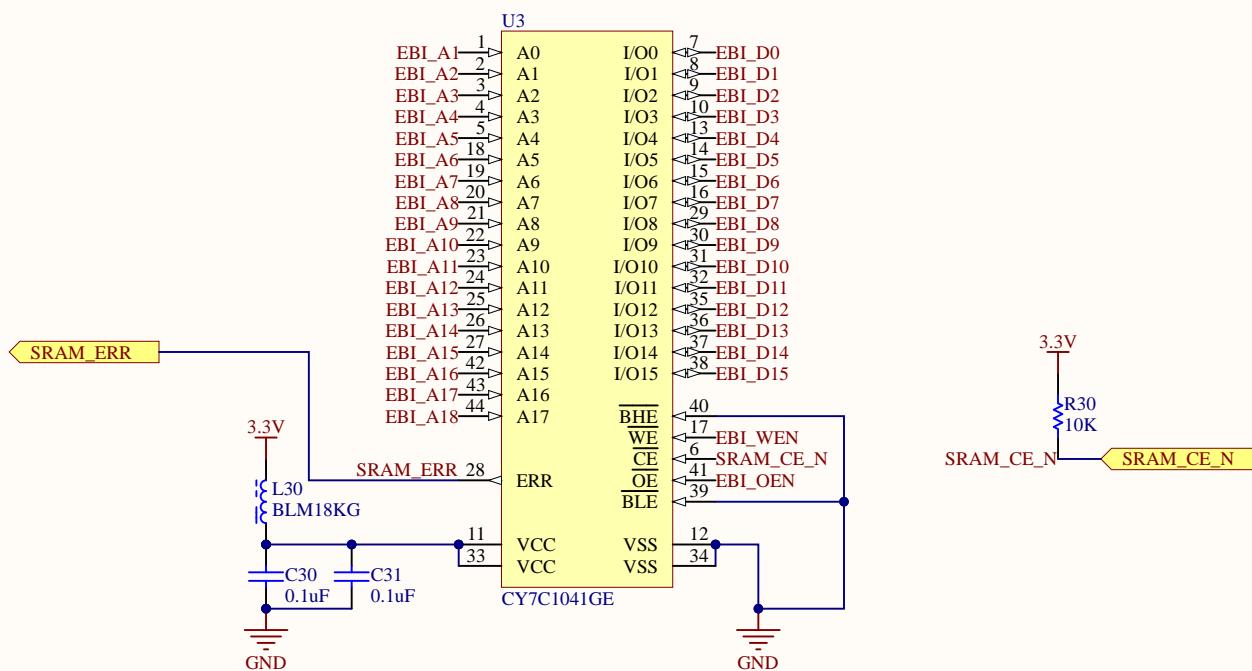
D

Title

PEB1-VA416XX-EBI/ETH

Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 8 11
File:	C:\svn\..\ebi_fram.SchDoc	Drawn By: DWM

A



B

A

C

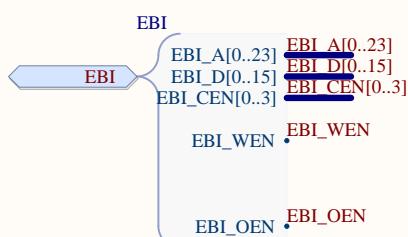
B

D

C

D

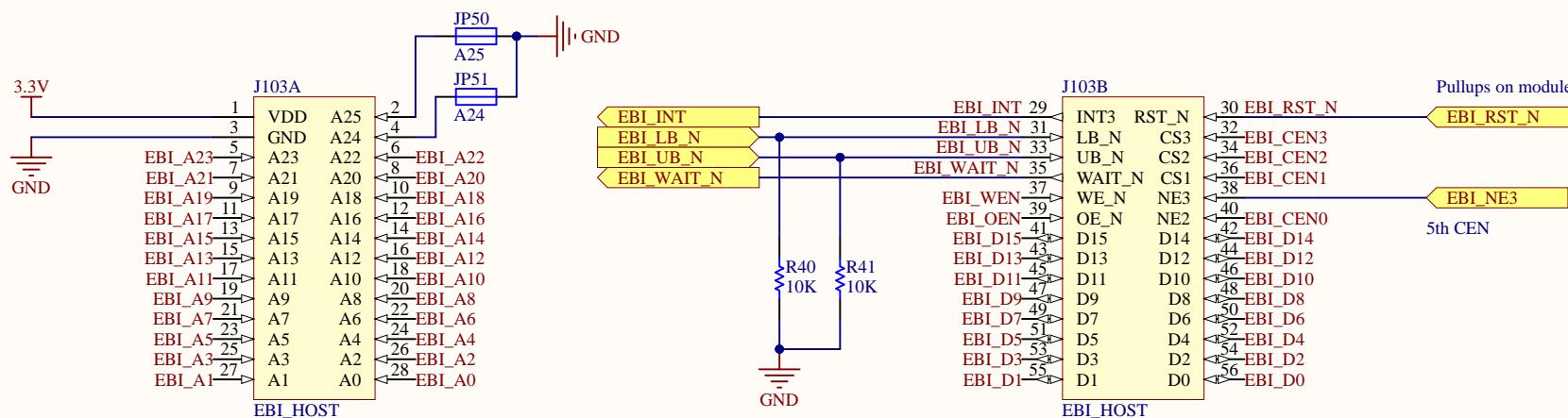
EBI_A0



Title		
Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet <i>of</i> 11
File:	C:\svn..\ebi_sram.SchDoc	Drawn By:DWM

A

A



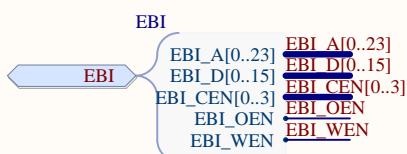
B

B



C

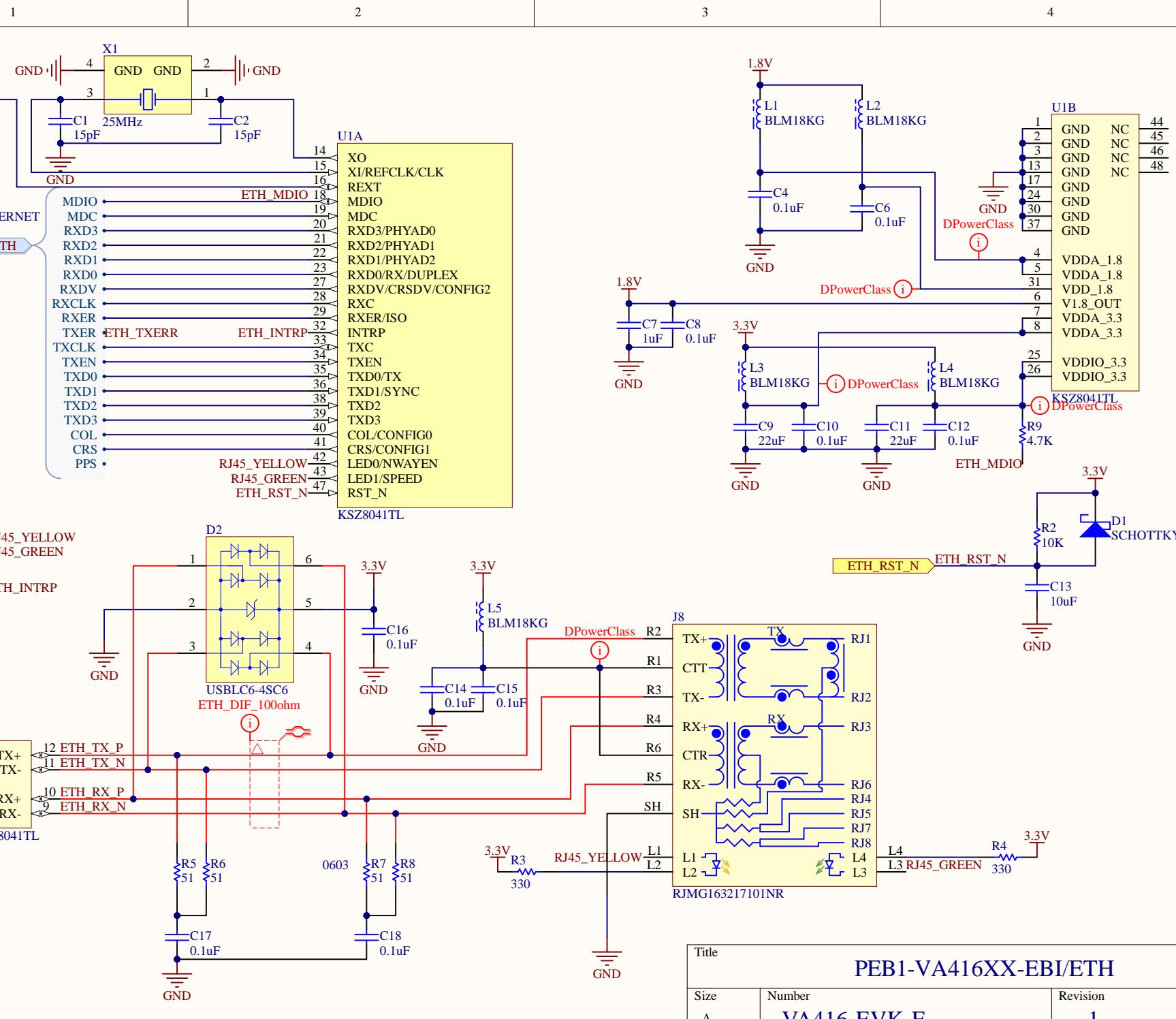
C



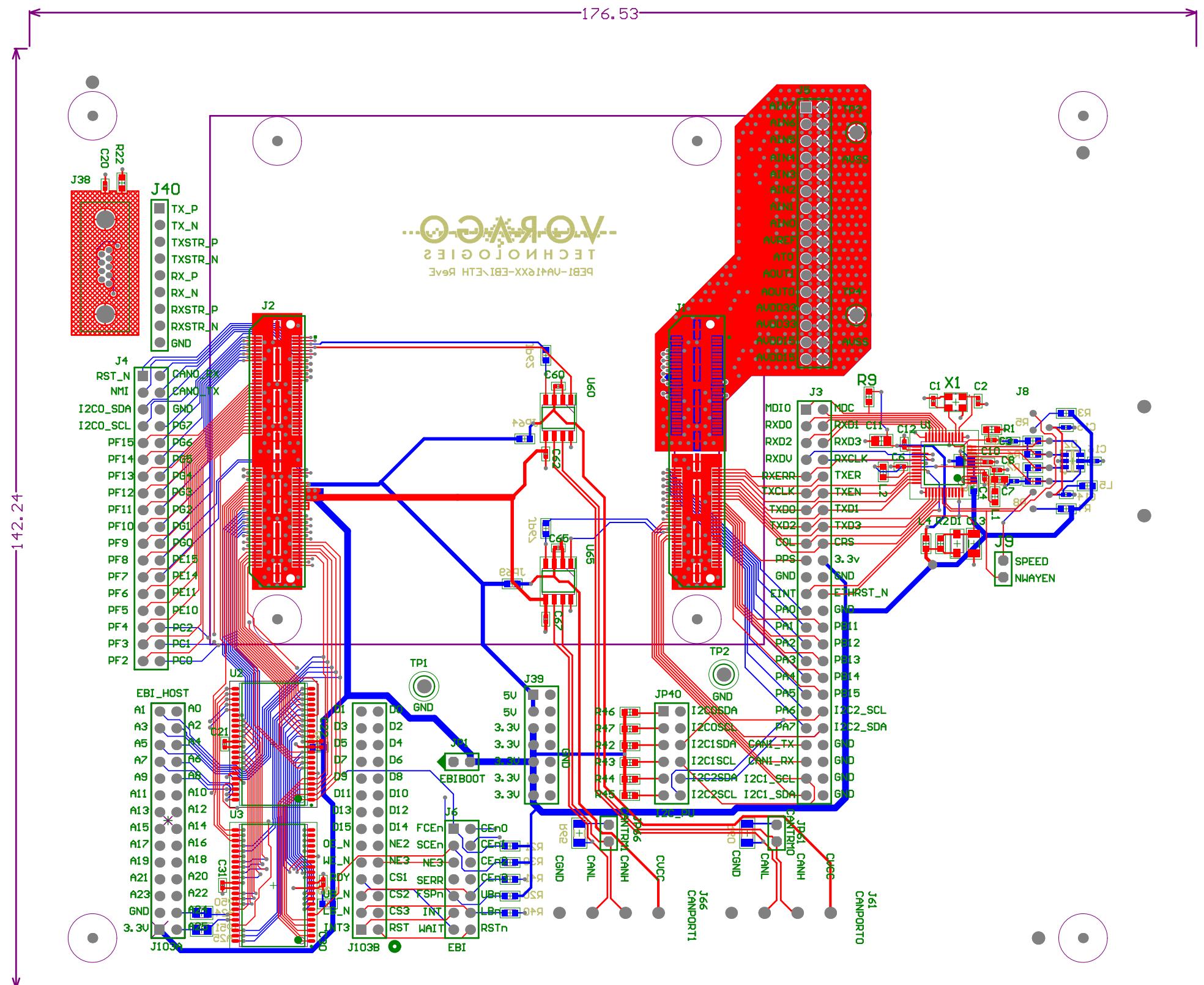
Title

PEB1-VA416XX-EBI/ETH

Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 10 11
File:	C:\svn..\ebi_int.SchDoc	Drawn By: DWM



Title		
Size	Number	Revision
A	VA416-EVK-E	1
Date:	3/17/2023	Sheet of 1 11
File:	C:\svn..\eth_int.SchDoc	Drawn By:DWM



Comment	Model/Footprint	Description	Designator	Footprint	LibRef	Quantity	FootprintDescription
15pF	Capacitor, Body 1x0.5mm, Height 0.6mm, IPC Medium Density		C1, C2	CAPC0402(1005)60_N	CAP	2	
100pF	Capacitor, Body 1x0.5mm, Height 0.6mm, IPC Medium Density		C3	CAPC0402(1005)60_N	CAP	1	
0.1uF	Capacitor, Body 1x0.5mm, Height 0.6mm, IPC Medium Density		C4, C6, C8, C10, C12, C14, C15, C16, C17, C18, C21, C22, C30, C31, C60, C62, C65, C67	CAPC0402(1005)60_N	CAP	18	
1uF	Capacitor, 2-Leads, Body 1.6x0.81mm, IPC Medium Density		C7	CAPC0603(1608)100_N	CAP	1	
22uF	Capacitor, Body 2x0.2mm, Height 1.0mm, IPC Medium Density		C9, C11	CAPC0805(2012)100_N	CAP	2	
10uF	Capacitor, Body 2x0.2mm, Height 1.3mm, IPC Medium Density		C13	CAPC1206(3216)130_N	CAP	1	
10000pF	Capacitor, Body 1x0.5mm, Height 0.6mm, IPC Medium Density		C20	CAPC0402(1005)60_N	CAP	1	
SOD123L6-4SC6	SOD123, 2-Leads, Body 1.6x0.50mm, IPC Medium Density		D1	SOD123L6-N	SCHOTTKY	1	
USBL06-4SC6	SOT123, 6-Leads, Body 3.0x1.75mm, Pitch 0.95mm	Very Low Capacitance ESD Protection, 3 pF, 40V Protection Lines, 40 to 125 deg, 6-Pin SOT123, RoHS, Tape and Reel	D2	STM-SOT123_6L_V	CMP-2000-07370-1	1	
OTH-060			J1, J2	OTH-060-01-L-D-A-K	OTH-060	2	
Header 2x24	Header 2.54mm 2x24		J3	Header_2x24	Header 2x24	1	
Header 2x18	Header 2.54mm 2x18		J4	Header_2x18	Header 2x18	1	
Analog	Header 2.54mm 2x16		J5	Header_2x16	Header 2x16	1	
EI	Header 2.54mm 2x7		J6	Header_2x7	Header 2x7	1	
RJMG163217101NR	ETH JACK W/INTEGRAL MAG		J8	RJMG163217101NR	RJMG163217101NR	1	
ETH_BOOT	mouse 517-2302- 61211G		J9	JMP2	Header 1x2	1	
SW_FEMALE	Micro D 9 female vertical		J38	380-009-213L001	SW_FEMALE	1	
PWR	Header 2.54mm 2x7		J39	Header_2x7	Header 2x7	1	
SpW	Header 2.54mm 1x9		J40	Header_1x9	Header 1x9	1	
CANPORT0	PT 1.5/4.5.0-H- 1935187		J61	CANPhy	CANPORT	1	
CANPORT1	PT 1.5/4.5.0-H- 1935187		J66	CANPhy	CANPORT	1	
EBl_HOST	SSW-114-22-F-D- LL		J103A	FSMC_HOST_SPLIT_A	FSMC_HOST_SPLIT_A	1	
EBl_HOST	SSW-114-22-F-D- LL		J103B	FSMC_HOST_SPLIT_B	FSMC_HOST_SPLIT_B	1	
EBIBOOT	mouse 517-2302- 61211G		JP1	JMP_DIR	JMP2	1	
DC	Header 2x6		JP6	I2C_P06	I2C_P06	1	
CANTRM0			JP81	JMP2	JMP2	1	
Cap Resistor,	Cap Resistor, Body 1x0.8mm, IPC Medium Density		JP62, JP64, JP67, JP69	RESC0603(1608)_N	RESISTOR	4	
CANTRM1			JP66	JMP2	JMP2	1	
BLM18KG	Cap Resistor, Body 1x0.8mm, IPC Medium Density	L1, L2, L3, L4, L5, L20, L30	RESC0603(1608)_N	BLM18KG		7	
6.49K	Cap Resistor, Body 1x0.8mm, IPC Medium Density		R1	RESC0603(1608)_N	RESISTOR	1	
10K	Cap Resistor, Body 1x0.8mm, IPC Medium Density	R2, R20, R21, R22, R30, R40, R41	RESC0603(1608)_N		RESISTOR	7	
330	Cap Resistor, Body 1x0.8mm, IPC Medium Density		R3, R4	RESC0403(1608)_N	RESISTOR	2	
51	Cap Resistor, Body 1x0.8mm, IPC Medium Density		R5, R6, R7, R8	RESC0603(1608)_N	RESISTOR	4	
4.7K	Cap Resistor, Body 1x0.8mm, IPC Medium Density		R9	RESC0603(1608)_N	RESISTOR	1	
2.2K	Cap Resistor, Body 1x0.8mm, IPC Medium Density	R42, R43, R44, R45, R46, R47	RESC0603(1608)_N		RESISTOR	6	
120	Cap Resistor, Body 3x2x1.6mm, IPC Medium Density		R60, R65	RESC1206(3216)_N	RESISTOR	2	
STANDOFF			S5, S6, S7, S8	STANDOFF440	STANDOFF	4	
GND	Test Point, Dia 3.17mm	Test Point, Black Through Hole, RoHS, Bulk	TP1, TP2	KSTN-5011_V	CMP-1672-00003-4	2	
AVSS	Test Point, Dia 3.17mm	Test Point, Black Through Hole, RoHS, Bulk	TP3, TP4	KSTN-5011_V	CMP-1672-00003-4	2	
ICSB041TL	GFP-48 Leads, Body 7x7mm, Pitch 0.5mm, IPC Medium Density		U1	GFP-48_N	KSB041TL	1	
EM22816	TQPF-JL-44-N		U2	TQPF_JL_44_N	EM22816	1	
CY7C1041GE	SOP, 44 Leads, Body 18.5x10.3mm, Pitch 0.8mm, IPC Medium Density		U3	CYP-TSOP-44_N	CY7C1041GE	1	
MCP2542FDT-E_SN	Integrated Circuit		U60, U65	SOIC127P600X175-8N	MCP2542FDT-E_SN	2	
25MHz	SMD, 4-Leads, Body 3.2x2.5mm		X1	XTAL_3_2x2.5	XTAL_SMD_4	1	