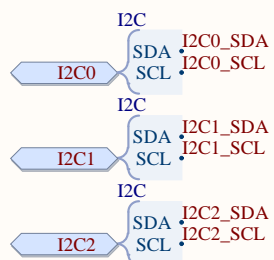
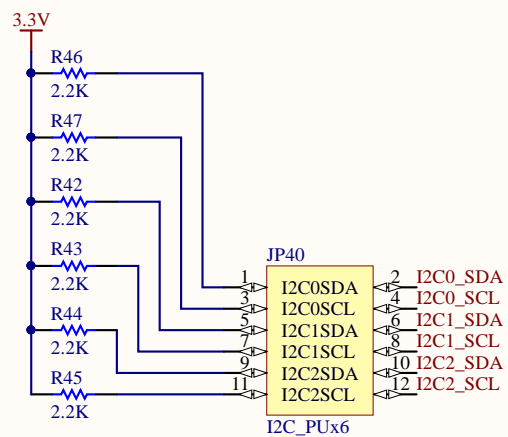


Title		
PEB1-VA416XX-EBI/ETH		
Size	Number	Revision
A	VA416-EVK-B4	0.1
Date:	11/15/2019	Sheet 4 of 9
File:	C:\svn\...\periph_headers.SchDoc	Drawn By: DWM



Title			PEB1-VA416XX-EBI/ETH		
Size	Number		Revision		
A	VA416-EVK-B4		0.1		
Date:	11/15/2019		Sheet	5	of 9
File:	C:\svn\...\i2c.SchDoc		Drawn By:	DWM	

VA416_PORTS

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

PORTS

I2C

SDA I2C0_SDA
SCL I2C0_SCL

I2C

SDA I2C1_SDA
SCL I2C1_SCL

I2C

SDA I2C2_SDA
SCL I2C2_SCL

CAN

TX CAN0_TX
RX CAN0_RX

CAN

TX CAN1_TX
RX CAN1_RX

EBI

EBI_A[0..23] EBI_A[0..23]
EBI_D[0..15] EBI_D[0..15]
EBI_CEN[0..3] EBI_CEN[0..3]
EBI_OEN EBI_OEN
EBI_WEN EBI_WEN

ANALOG

AIN[0..7] AIN[0..7]
AOUT[0..1] AOUT[0..1]

EBI_BOOT EBI_BOOT

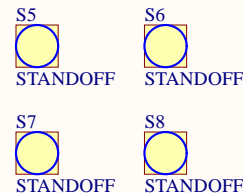
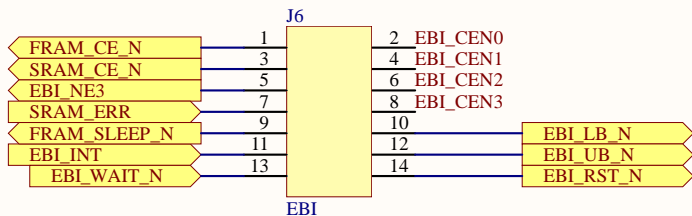
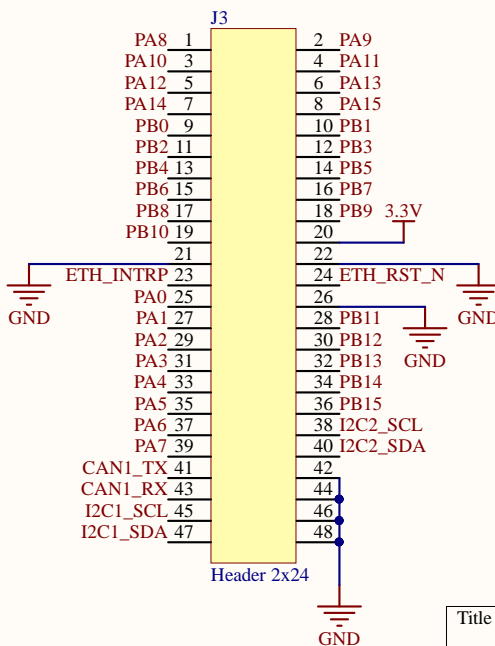
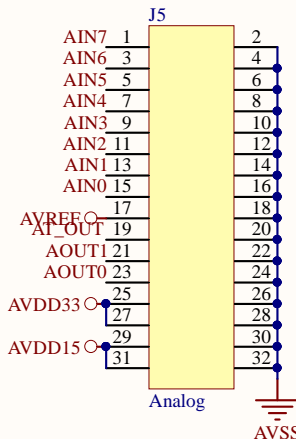
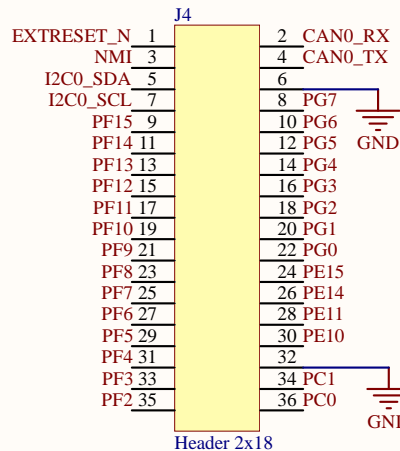
EXTRESET_N EXTRESET_N

NMI NMI

AT_OUT AT_OUT

ETH_RST_N ETH_RST_N

ETH_INTRP ETH_INTRP



Title

PEB1-VA416XX-EBI/ETH

Size

Number

Revision

A

VA416-EVK-B4

0.1

Date:

11/15/2019

Sheet

7

of

11

File:

C:\svn\...\ebi_base_headers.SchDoc

Drawn By:

DWM

A

B

C

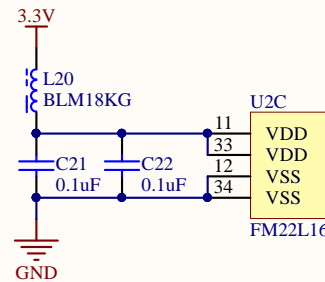
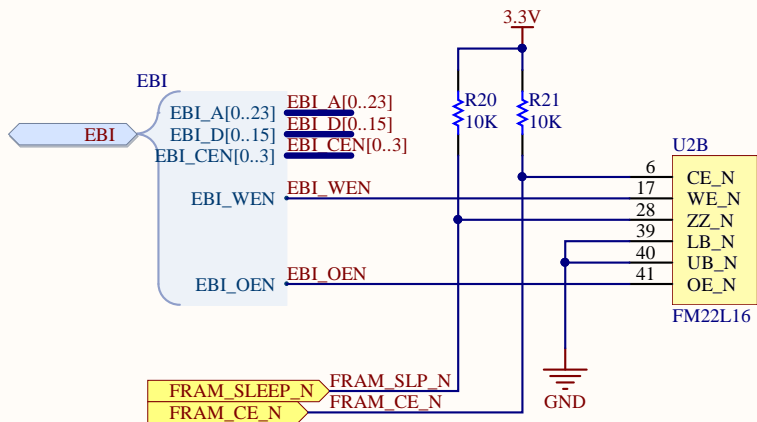
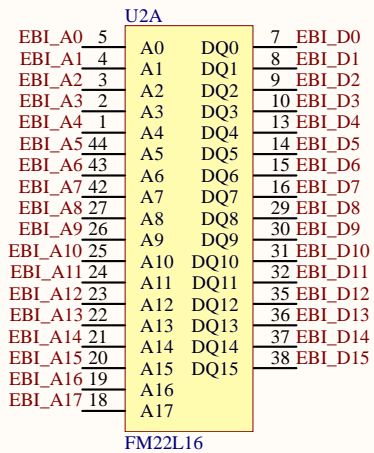
D

A

B

C

D



Title			
PEB1-VA416XX-EBI/ETH			
Size	Number	Revision	
A	VA416-EVK-B4	0.1	
Date:	11/15/2019	Sheet	8 of 11
File:	C:\svn\...\ebi_fram.SchDoc	Drawn By:	DWM

1

2

3

4

A

A

B

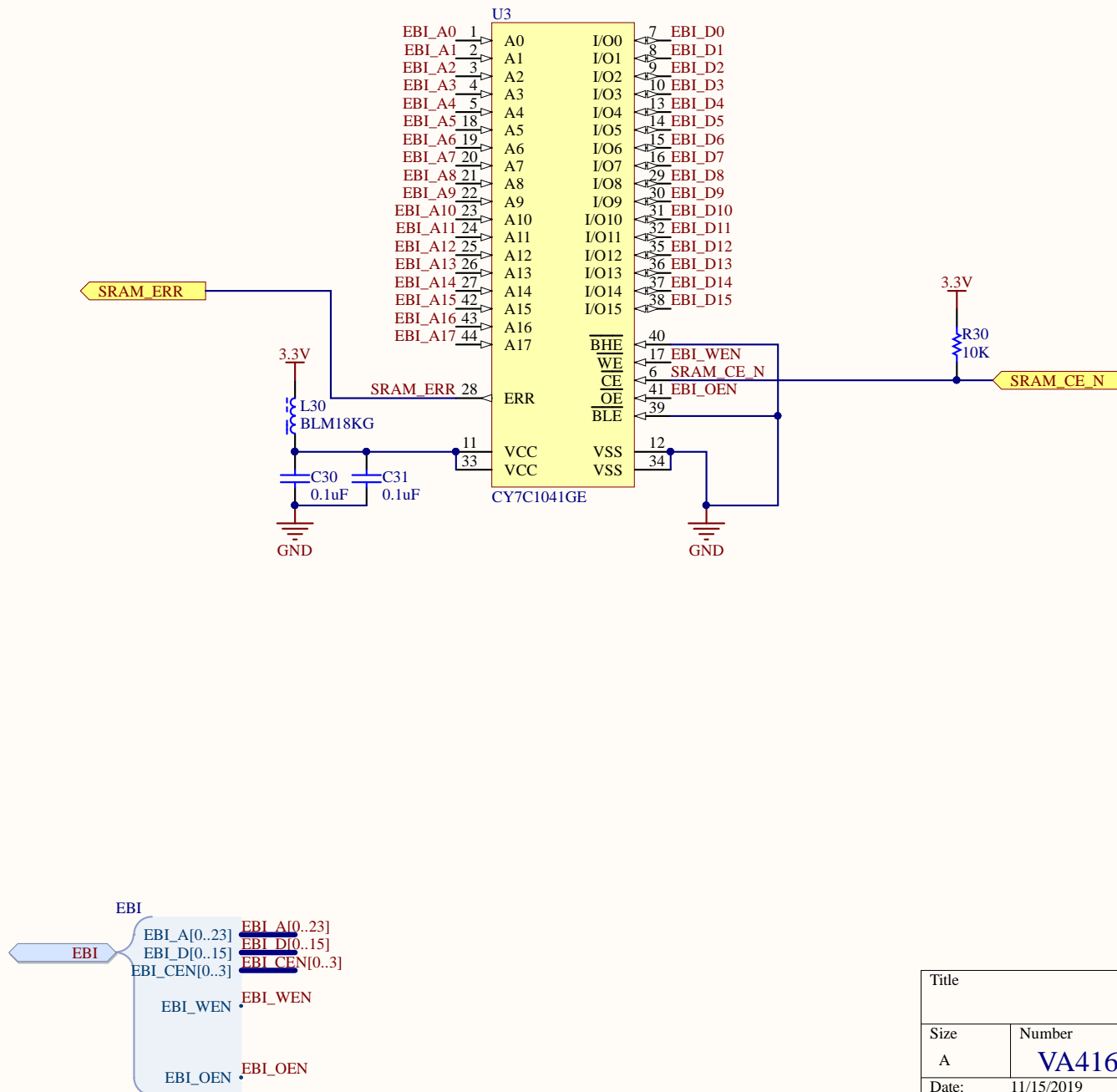
B

C

C

D

D



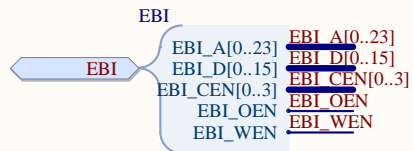
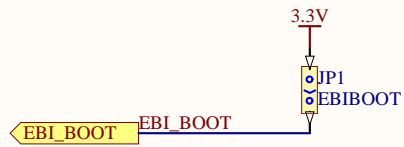
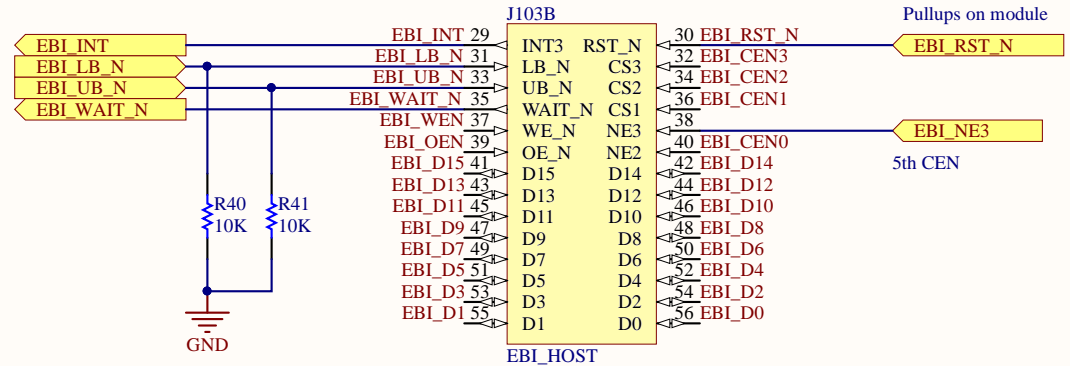
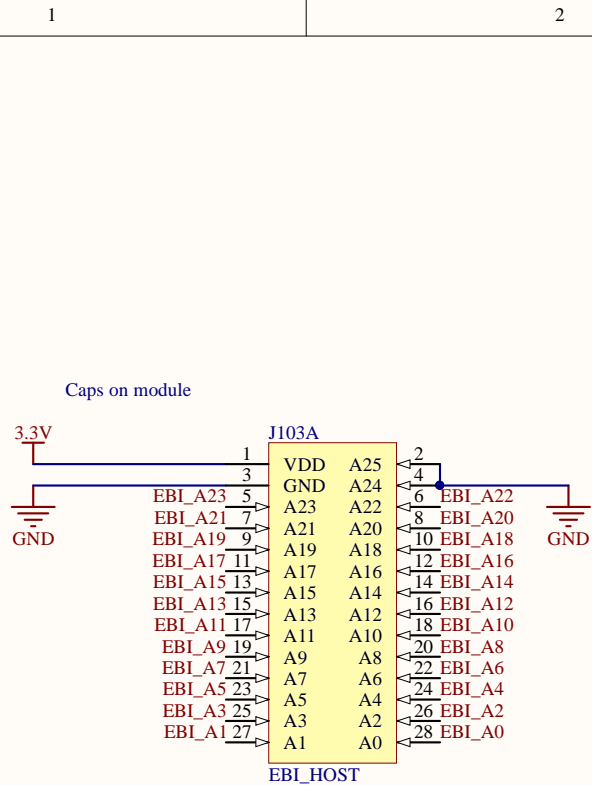
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Size	Number		Revision	
A	VA416-EVK-B4		0.1	
Date:	11/15/2019		Sheet 9 of 11	
File:	C:\svn\...\ebi_sram.SchDoc		Drawn By: DWM	

1

2

3

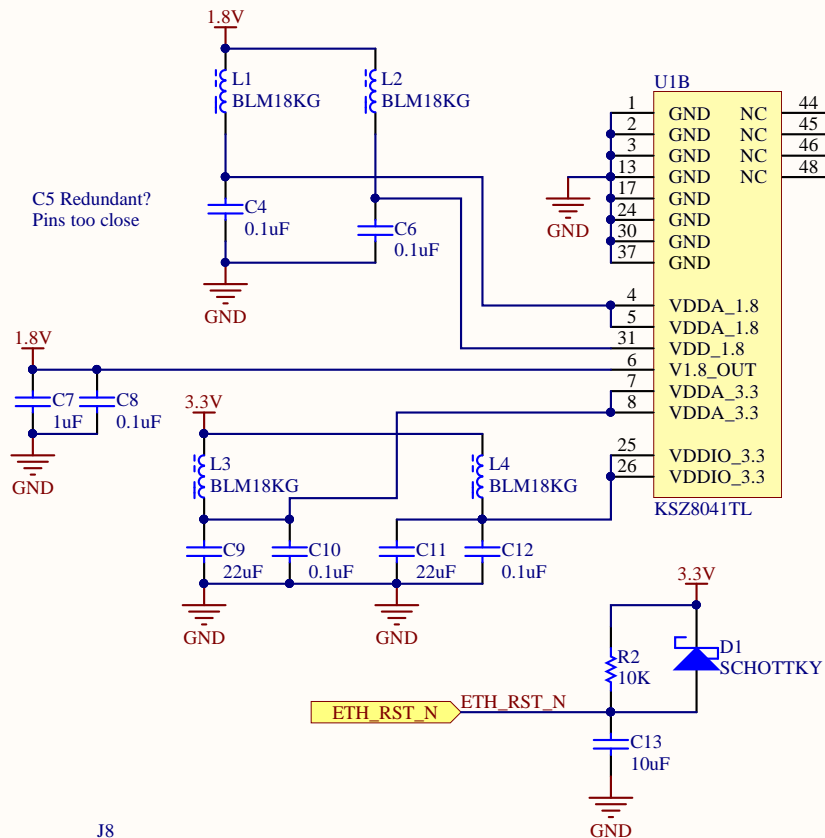
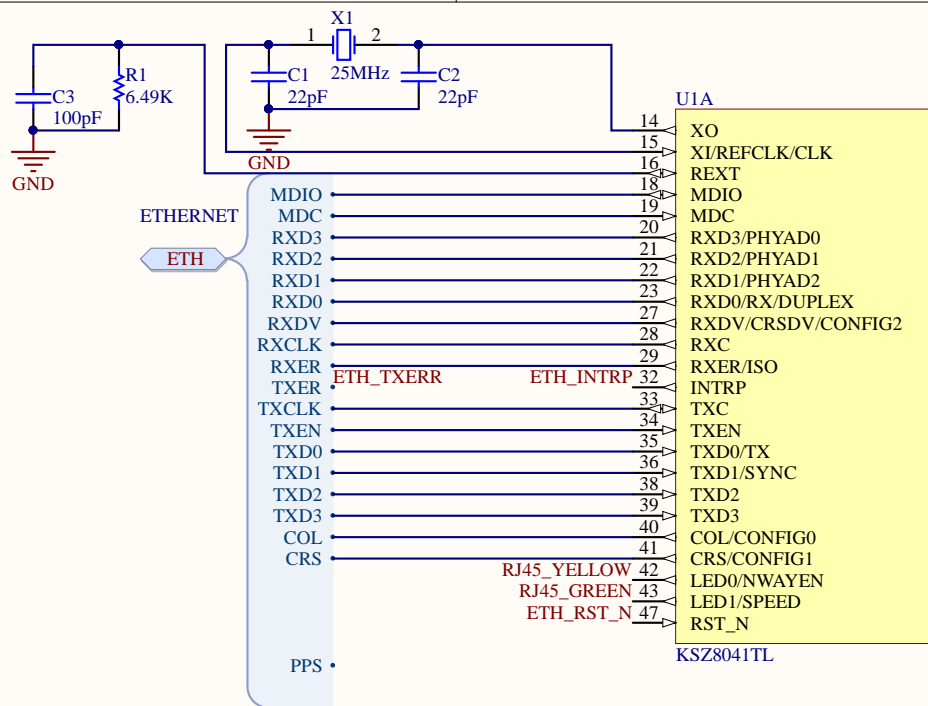
4



Title			PEB1-VA416XX-EBI/ETH		
Size	Number		Revision		
A	VA416-EVK-B4		0.1		
Date:	11/15/2019		Sheet	10 of 11	
File:	C:\svn\...\ebi_int.SchDoc		Drawn By:	DWM	

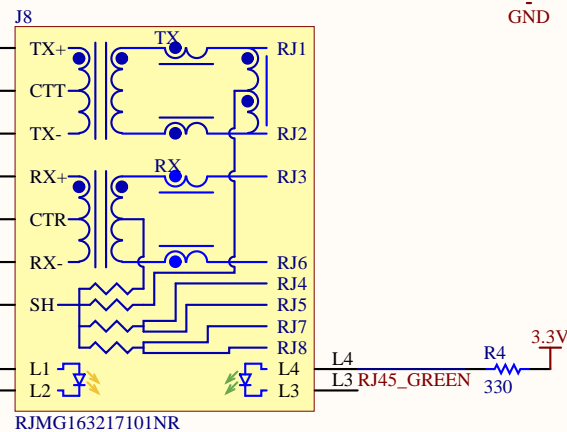
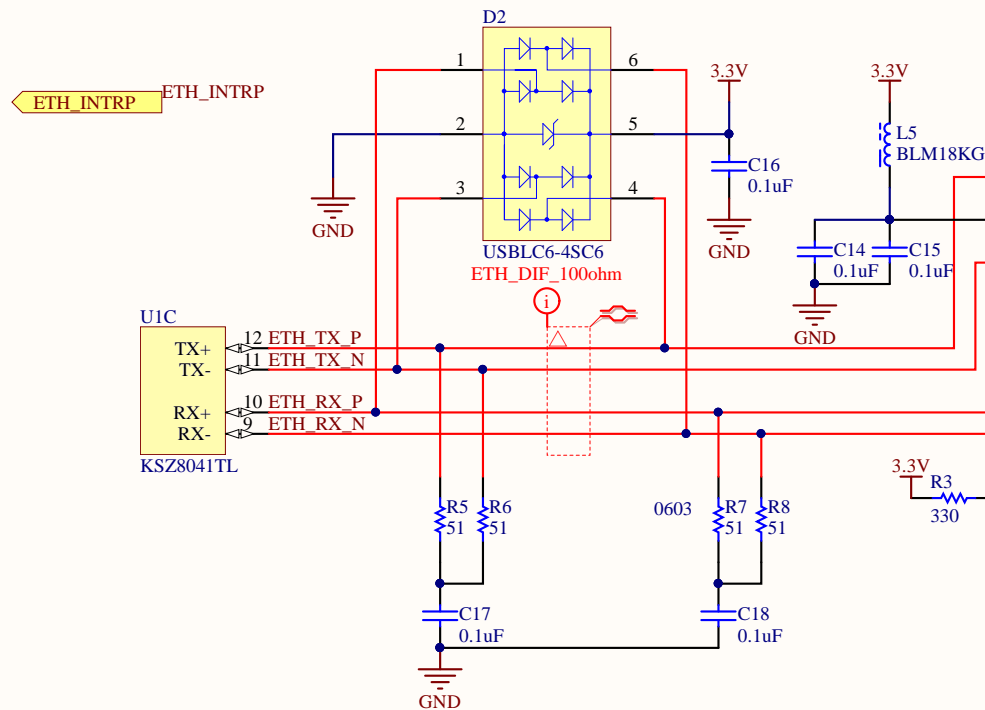
A

A



B

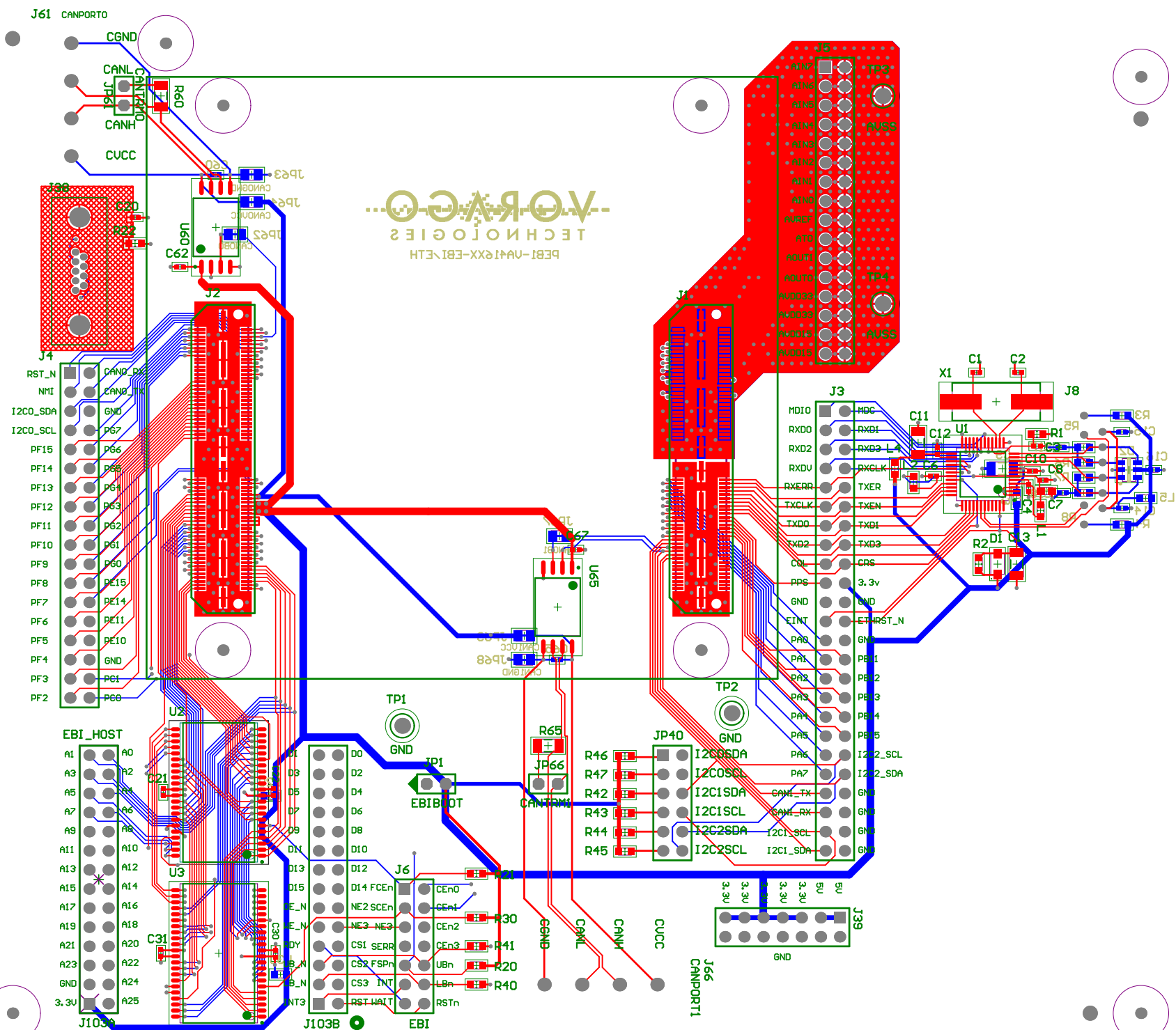
B



D

D

Title		
PEB1-VA416XX-EBI/ETH		
Size	Number	Revision
A	VA416-EVK-B4	0.1
Date:	11/15/2019	Sheet 11 of 11
File:	C:\svn\...\eth_int.SchDoc	Drawn By: DWM



Comment	Model:Footprint	Description	Designator	Footprint	LibRef	Quantity	FootprintDescription
22pF	Chip Capacitor, Body 1.0x0.5mm, Height 0.8mm		C1, C2	CAPC0402(1005)60_N	CAP	2	
100pF	Chip Capacitor, Body 1.0x0.5mm, Height 0.8mm		C3	CAPC0402(1005)60_N	CAP	1	
0.1uF	Chip Capacitor, Body 1.0x0.5mm, Height 0.8mm		C4, C6, C8, C10, C12	CAPC0402(1005)60_N	CAP	18	
1uF	Chip Capacitor, 2-Leads, Body 1.60x0.8mm		C7	CAPC0603(1608)100_N	CAP	1	
22uF	Chip Capacitor, Body 3.2x1.6mm, Height 1.6mm		C9, C11	CAPC1206(3216)130_N	CAP	2	
10uF	Chip Capacitor, Body 3.2x1.6mm, Height 1.6mm		C13	CAPC1206(3216)130_N	CAP	1	
10000pF	Chip Capacitor, Body 1.0x0.5mm, Height 0.8mm		C20	CAPC0402(1005)60_N	CAP	1	
SCHOTTKY	SODFL, 2-Leads, Body 1.65x3.50mm, Height 1.0mm		D1	SOD123FL-N	SCHOTTKY	1	
USBLC6-4SC6	SOT23, 6-Leads, Very Low Capacitance		D2	STM-SOT23-6L_V	CMP-2000-07370-1	1	
QTH-060			J1, J2	QTH-060-01-L-D-A-K	QTH-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	
Anabg	Header 2.54mm 2x16		J5	Header_2x16	Header 2x16	1	
EBI	Header 2.54mm 2x7		J6	Header_2x7	Header 2x7	1	
RJMG163217101NR	ETH JACK W/INTEGRAL MAG		J8	RJMG163217101NR	RJMG163217101NR	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	
CANPORT0	PT 1,5/ 4-5,0-H - 1935187		J61	CANPhy	CANPORT	1	
CANLLVDD6	SSW-106-02-T-S-RA		J65	CANLLVDD6	CANLLVDD6	1	
CANPORT1	PT 1,5/ 4-5,0-H - 1935187		J66	CANPhy	CANPORT	1	
EBI_HOST	SSW-114-22-F-D-LL		J103A	FSMC_HOST_SPLIT_A	FSMC_HOST_SPLIT_A	1	
EBI_HOST	SSW-114-22-F-D-LL		J103B	FSMC_HOST_SPLIT_B	FSMC_HOST_SPLIT_B	1	
EBIBOOT	mouser517-2302-6121TG		JP1	JMP_DIR	JMP2	1	
I2C_PUx6	Header 2x6		JP40	I2C_PUx6	I2C_PUx6	1	
CANTRM0			JP61	JMP2	JMP2	1	
CANTRM1			JP66	JMP2	JMP2	1	
BLM18KG	Chip Resistor, Body 1.6x0.8mm, IPC Me		L1, L2, L3, L4, L5, L2	RESC0603(1608)_N	BLM18KG	7	
6.49K	Chip Resistor, Body 1.6x0.8mm, IPC Me		R1	RESC0603(1608)_N	RESISTOR	1	
10K	Chip Resistor, Body 1.6x0.8mm, IPC Me		R2, R20, R21, R22, R	RESC0603(1608)_N	RESISTOR	7	
330	Chip Resistor, Body 1.6x0.8mm, IPC Me		R3, R4	RESC0603(1608)_N	RESISTOR	2	
51	Chip Resistor, Body 1.6x0.8mm, IPC Me		R5, R6, R7, R8	RESC0603(1608)_N	RESISTOR	4	
2.2K	Chip Resistor, Body 1.6x0.8mm, IPC Me		R42, R43, R44, R45,	RESC0603(1608)_N	RESISTOR	6	
120	Chip Resistor, Body 3.2x1.6mm, IPC Me		R60, R65	RESC1206(3216)_N	RESISTOR	2	
STANDOFF			S5, S6, S7, S8	STANDOFF440	STANDOFF	4	
GND	Test Point, Dia 3.0mm	Test Point, Black, Th	TP1, TP2	KSTN-5011_V	CMP-1672-00003-4	2	
AVSS	Test Point, Dia 3.0mm	Test Point, Black, Th	TP3, TP4	KSTN-5011_V	CMP-1672-00003-4	2	
KSZ8041TL	QFP, 48-Leads, Body 7x7mm, Pitch 0.5mm		U1	QFP-48_N	KSZ8041TL	1	
FM22L16	TSOP_II_44_N		U2	TSOP_II_44_N	FM22L16	1	
CY7C1041GE	SOP, 44-Leads, Body 18.5x10.3mm, Pitch 0.5mm		U3	CYP-TSOP-44_N	CY7C1041GE	1	
ISO1042DWVR	ISO1042 IPC Normal		U60, U65	SOIC8W_ISO1042_N	ISO1042DWV	2	
25MHz	SMD, 2-Leads, Body 5x11.7mm		X1	HC-49S_US-SM	XTAL	1	