REV	COMMENT	DATE	DRAWN BY
1.0	WS Release	21/04/2021	SDD/KSS
1.1	Changed values of R308 and R322	12/05/2022	SDD/KSS
1.2	Aligned with BoM v0750	22/09/2022	SDD/KSS

RSK RZ/N2L

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1 TP4 Fiducial_0.5mm round

1 TP5 Fiducial_0.5mm round

Rubber Foot MP1 Rubber Foot MP2 Rubber Foot MP3 Rubber Foot MP4

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Title: RSK+RZ/N2L
Title Page

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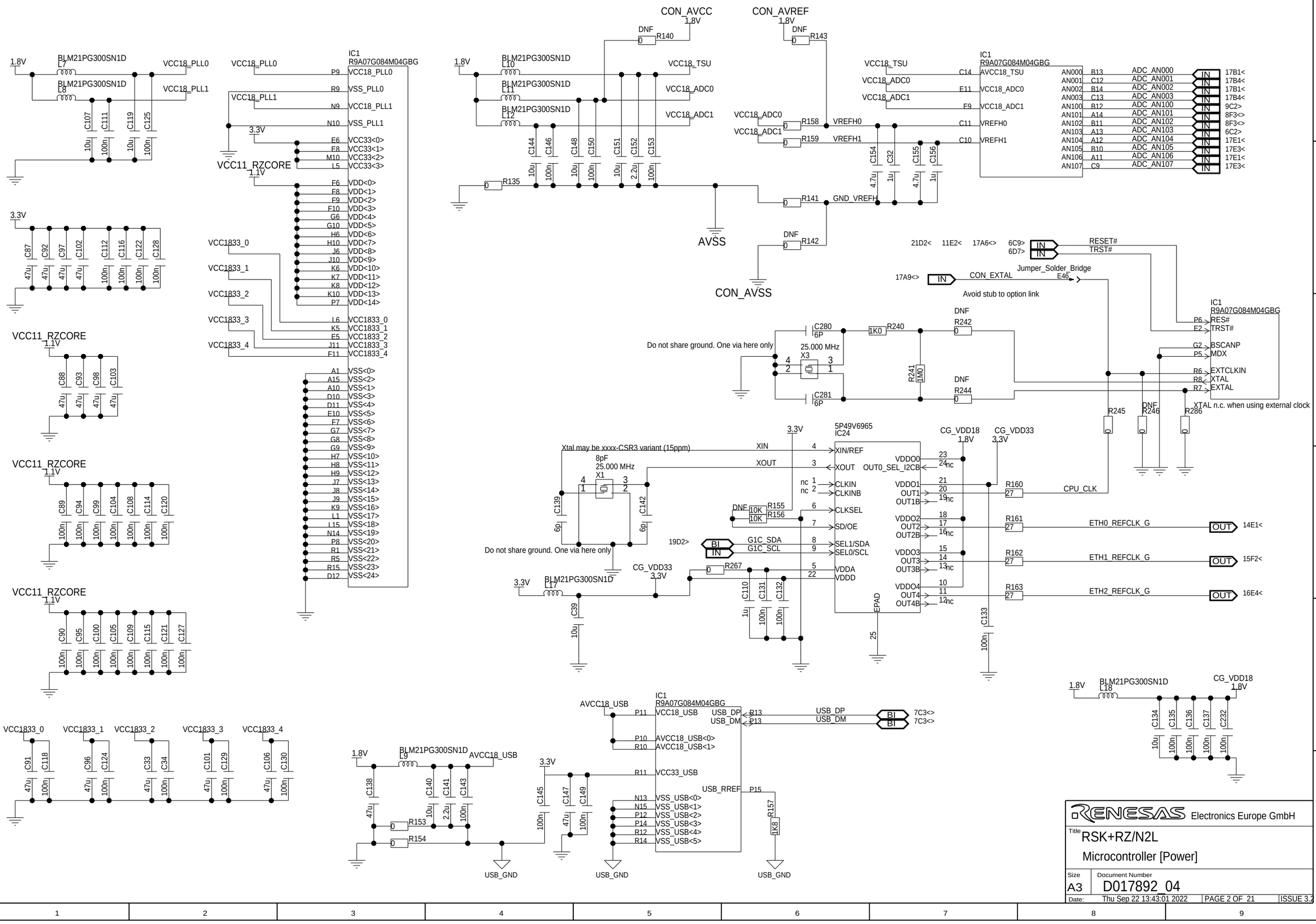
1.8V
BLM21PG300SN1D
L7
L8
VCC18_PLL0
VCC18_PLL1
C107 C111 C119 C125
10u 100n 10u 100n
3.3V
C87 C92 C97 C102 C112 C116 C122 C128
47u 47u 47u 47u 100n 100n 100n 100n
VCC11_RZCORE
1.1V
C88 C93 C98 C103
47u 47u 47u 47u
C89 C94 C99 C104 C108 C114 C120
100n 100n 100n 100n 100n 100n 100n
C90 C95 C100 C105 C109 C115 C121 C127
100n 100n 100n 100n 100n 100n 100n 100n
IC1
R9A07G084M04GBG
P9 VCC18_PLL0
R9 VSS_PLL0
N9 VCC18_PLL1
N10 VSS_PLL1
E6 VCC33<0>
E8 VCC33<1>
M10 VCC33<2>
L5 VCC33<3>
F6 VDD<0>
F8 VDD<1>
F9 VDD<2>
F10 VDD<3>
G6 VDD<4>
G10 VDD<5>
H6 VDD<6>
H10 VDD<7>
J6 VDD<8>
J10 VDD<9>
K6 VDD<10>
K7 VDD<11>
K8 VDD<12>
K10 VDD<13>
P7 VDD<14>
L6 VCC1833_0
K5 VCC1833_1
E5 VCC1833_2
J11 VCC1833_3
F11 VCC1833_4
A1 VSS<0>
A15 VSS<2>
A10 VSS<1>
D10 VSS<3>
D11 VSS<4>
E10 VSS<5>
F7 VSS<6>
G7 VSS<7>
G8 VSS<8>
G9 VSS<9>
H7 VSS<10>
H8 VSS<11>
H9 VSS<12>
J7 VSS<13>
J8 VSS<14>
J9 VSS<15>
K9 VSS<16>
L1 VSS<17>
L15 VSS<18>
N14 VSS<19>
P8 VSS<20>
R1 VSS<21>
R5 VSS<22>
R15 VSS<23>
D12 VSS<24>
VCC1833_0
VCC1833_1
VCC1833_2
VCC1833_3
VCC1833_4
C91 C118
C96 C124
C33 C34
C101 C129
C106 C130
47u 100n
CON_AVCC
CON_AVREF
CON_AVSS
DNF
R140
R143
R135
R141
R142
R158
R159
VREFH0
VREFH1
GND_VREFH
C144 C146 C148 C150 C151 C152 C153
C154 C32 C155 C156
4.7u 1u 4.7u 1u
VCC18_TSU
VCC18_ADC0
VCC18_ADC1
C14 AVCC18_TSU
E11 VCC18_ADC0
E9 VCC18_ADC1
C11 VREFH0
C10 VREFH1
AN000 B13 ADC_AN000
AN001 C12 ADC_AN001
AN002 B14 ADC_AN002
AN003 C13 ADC_AN003
AN100 B12 ADC_AN100
AN101 A14 ADC_AN101
AN102 B11 ADC_AN102
AN103 A13 ADC_AN103
AN104 A12 ADC_AN104
AN105 B10 ADC_AN105
AN106 A11 ADC_AN106
AN107 C9 ADC_AN107
17B1<
17B4<
17B1<
17B4<
9C2>
8F3<>
8F3<>
6C2>
17E1<
17E3<
17E1<
17E3<
21D2< 11E2< 17A6<> 6C9> 6D7>
RESET#
TRST#
Jumper_Solder_Bridge
17A9<>
CON_EXTAL
E46
Avoid stub to option link
Do not share ground. One via here only
C280 6P
C281 6P
1K0
R240
R241 1M0
R242
R244
25.000 MHz
X3
R245 R246 R286
XTAL n.c. when using external clock
5P49V6965
IC24
Xtal may be xxxx-CSR3 variant (15ppm)
8pF
25.000 MHz
X1
C139 6p
C142 6p
XIN
XOUT
CLKIN
CLKINB
CLKSEL
SD/OE
SEL1/SDA
SEL0/SCL
VDDA
VDDD
EPAD
OUT0_SEL_I2CB
VDDO0 VDDO1 VDDO2 VDDO3 VDDO4
OUT1 OUT2 OUT3 OUT4
OUT1B OUT2B OUT3B OUT4B
R155 10K
R156 10K
R267
R160 27
R161 27
R162 27
R163 27
CPU_CLK
ETH0_REFCLK_G
ETH1_REFCLK_G
ETH2_REFCLK_G
14E1<
15F2<
16E4<
19D2>
G1C_SDA
G1C_SCL
C110 C131 C132
1u 100n 100n
C133 100n
C39 10u
C145 C147 C149
100n 47u 100n
CG_VDD18 1.8V
CG_VDD33 3.3V
IC1
R9A07G084M04GBG
AVCC18_USB
P11 VCC18_USB
P10 AVCC18_USB<0>
R10 AVCC18_USB<1>
R11 VCC33_USB
USB_RREF P15
N13 VSS_USB<0>
N15 VSS_USB<1>
P12 VSS_USB<2>
P14 VSS_USB<3>
R12 VSS_USB<4>
R14 VSS_USB<5>
USB_DP R13
USB_DM P13
R157 1K8
C138 47u
C140 10u
C141 2.2u
C143 100n
R153 0
R154 0
L9
C134 C135 C136 C137 C232
10u 100n 100n 100n 100n
L18
USB_GND
RENESAS Electronics Europe GmbH
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Microcontroller [Power]
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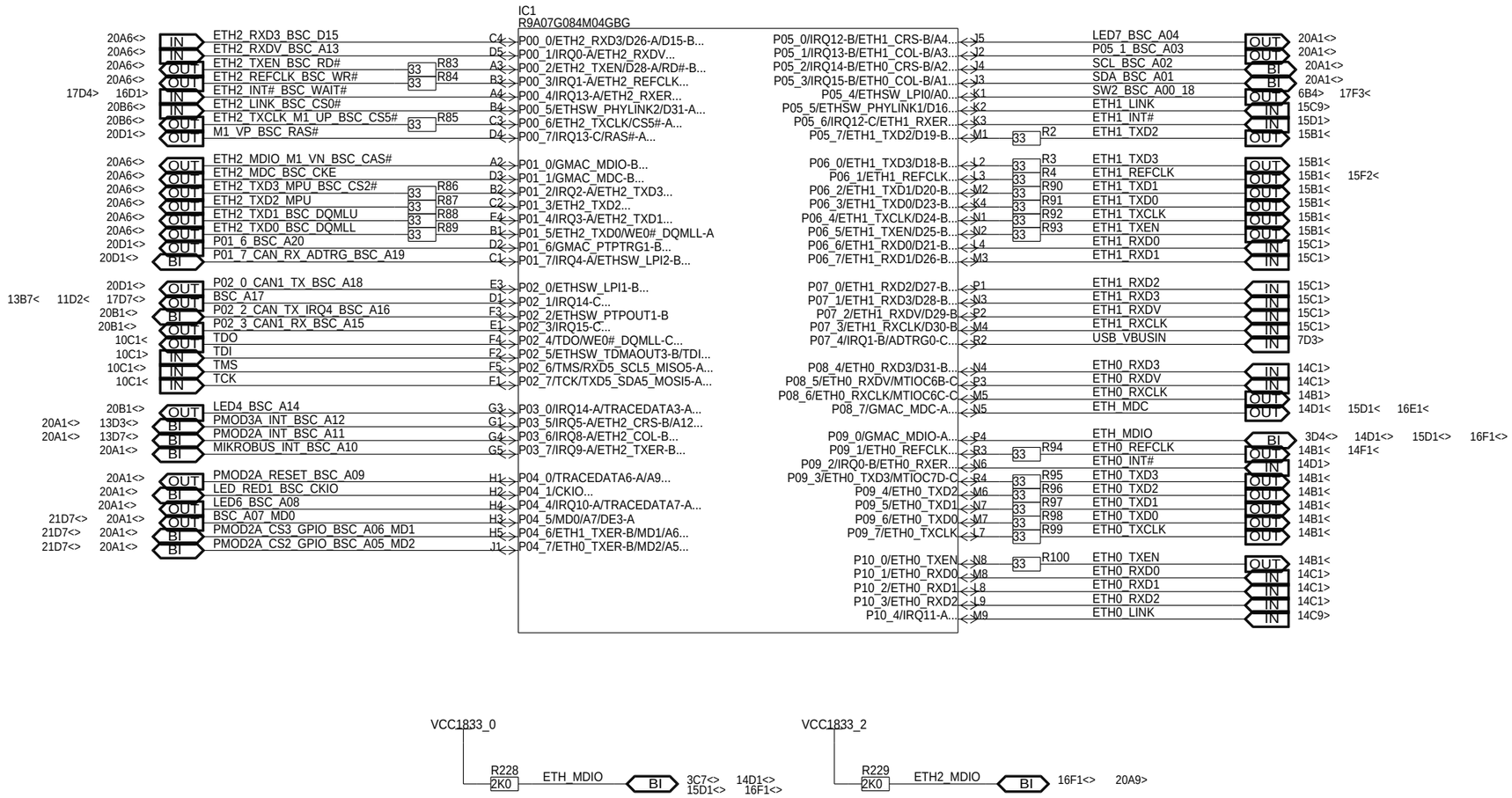

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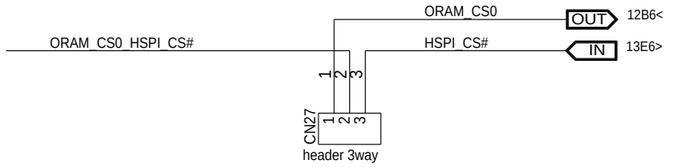
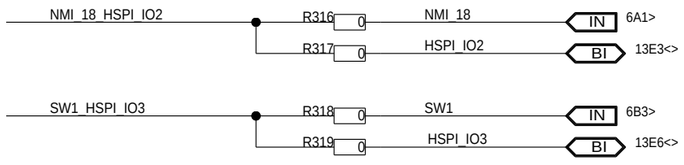
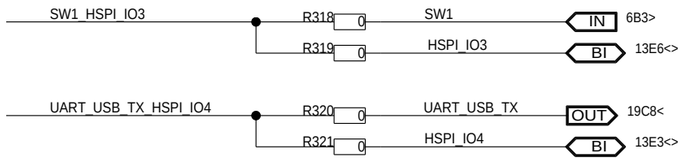
RENESAS Electronics Europe GmbH

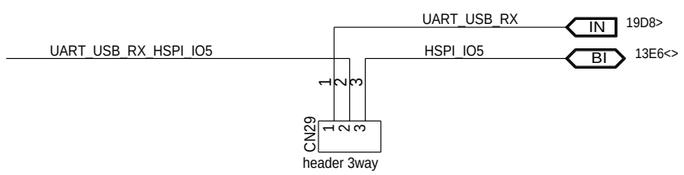
IC1
R9A07G084M04GBG

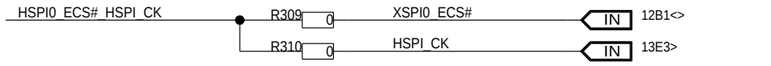
16A1<	OUT	ESC_B_RESETOUT#	N11	P12_4/XSPI1_RESET0...	P18_0/MTIOC4C-A/MTIOC4A-D...	E14	SCI_TXD_HSPI_IO6	
					P18_1/IRQ10-B/MTIOC3D-A...	D15	SCI_RTS_M1_UN_HSPI_IO7	
13B3<> 12F6<>	BI	EEPROM_SCL	L10	P13_2/IRQ5-B/XSPI1_CS1...	P18_2/MTIOC4B-A/MTIOC4D-D...	D14	PMOD3A_GPIO2_LED_GRN_M1_WP	BI 21B6<>
13B7<> 12F6<>	BI	EEPROM_SDA	N12	P13_3/XSPI1_CKP...	P18_3/IRQ0-C/MTIOC4D-A...	E13	MB_RST#_M1_WN	OUT 17A9<> 9C2<
16A1< 15C1< 14C1<	OUT	ESC_RESETOUT#	L12	P13_4/XSPI1_CKN...	P18_4/TRACECTL-A/MTIC5V-B...	E12	SCK	OUT 8B2< 9C2<
13B3< 6E4< 17B5>	IN	DIP_SW2_18_M1_TRCCLK	M12	P13_5/XSPI0_WP1...	P18_5/IRQ1-C/MTIC5U-B...	D13	MOSI	OUT 8B2< 9C2<
13B3< 6E4< 17C5>	IN	DIP_SW1_18_M1_TRDCLK	M13	P13_6/XSPI0_WP0...	P18_6/IRQ11-C/TRACECLK-A...	C15	P18_6_MISO	IN 8B2> 9C2> 13B3<>
6E4< 17B5>	OUT	DIP_SW4_18_M2_TRCCLK	M11	P13_7/XSPI0_ECS1...				
6E4< 17C5>	IN	DIP_SW3_18_M2_TRDCLK	L13	P14_0/XSPI0_INT0...	P19_0/MDV4/USB_VBUSEN-C	B15	USB_VBUSEN_MDV4	OUT 21E6<> 7B3<
13E3<	OUT	HSPI_IO0	L14	P14_1/XSPI0_INT1/ETH1_COL-C...	P20_1/ETHSW_TDMAOUT0-A/MDV0...	B9	ETH_LED2_MDV0	OUT 6E1<
		HSPI0_ECS#_HSPI_CK	K12	P14_2/IRQ6-B/XSPI0_ECS0...	P20_2/ETHSW_TDMAOUT1-A/MDV1...	D8	ETH_LED0_MDV1	OUT 6D1<
		HSPI_IO1_A	M14	P14_3/XSPI0_RSTO1...	P20_3/ETHSW_TDMAOUT2-A/MDV2...	D9	ETH_LED1_MDV2	OUT 13B3<> 21E6<>
20D5<>	BI	XSPI0_DS_MPU	J13	P14_4/XSPI0_DS/BS-A...	P20_4/ETHSW_TDMAOUT3-A/MDV3...	A9	ETH_LED3_MDV3	OUT 13B7<> 21E6<>
20C5<>	OUT	XSPI0_CKN_BSC_CS3#	J12	P14_5/XSPI0_CKN/CS3#/POE8#-B				
20C5<>	OUT	XSPI0_CKP_BSC_A21	K13	P14_6/XSPI0_CKP/A21-B	P21_1/TRACEDATA0-B/D0...	B8	CS_TRACE_D0_BSC_D00_HSPI_INT#-B	
20C5<>	BI	XSPI0_IO0_BSC_A22	M15	P14_7/XSPI0_IO0/A22-B...	P21_2/TRACEDATA1-B/D1...	C8	TRACE_D1_BSC_D01	BI 13D7<> 20C1<>
20C5<>	BI	XSPI0_IO1_BSC_A23	L11	P15_0/XSPI0_IO1/A23-B...	P21_3/TRACEDATA2-B/D2...	A8	TRACE_D2_BSC_D02	BI 13D3<> 20C1<>
20C5<>	BI	XSPI0_IO2_BSC_A24	K14	P15_1/XSPI0_IO2/A24-B...	P21_4/TRACEDATA3-B/D3...	E7	TRACE_D3_BSC_D03	BI 13D7<> 20C1<>
20C5<>	BI	XSPI0_IO3_BSC_A25	K15	P15_2/XSPI0_IO3/A25-B...	P21_5/IRQ6-A/TRACEDATA4-B...	C7	P21_5_TRACE_D4_BSC_D04	BI 20C1<>
20C5<>	BI	XSPI0_IO4_MPU	K11	P15_3/XSPI0_IO4/MTIOC8C-B...	P21_6/IRQ9-C/TRACEDATA5-B...	D7	TRACE_D5_BSC_D05	BI 20C1<>
20C5<>	BI	XSPI0_IO5_MPU	H13	P15_4/XSPI0_IO5/MTIOC8D-B...	P21_7/IRQ10-C/TRACEDATA6-B...	B7	TRACE_D6_BSC_D06	BI 13C3<> 20C1<>
20C5<>	BI	XSPI0_IO6_MPU	J14	P15_5/XSPI0_IO6/MCLK2-B	P22_0/IRQ15-A/TRACEDATA7-B...	A7	TRACE_D7_BSC_D07	BI 13C7<> 20C1<>
20D5<>	BI	XSPI0_IO7_MPU	H12	P15_6/XSPI0_IO7/SSL12-A...	P22_1/TRACECTL-C/D8-A...	A6	LED5_BSC_D08	OUT 20C1<>
12D3<	OUT	OQFLASH_CS0	J15	P15_7/XSPI0_CS0/CTS5#-C...	P22_2/IRQ4-C/TRACECLK-C...	C6	TRACE_CLK_BSC_D09	BI 20D1<>
		ORAM_CS0_HSPI_CS#	G13	P16_0/XSPI0_CS1/ETH0_TXER-C...	P22_3/D10-A/MTIOC8D-C...	B6	LED_ORANGE_BSC_D10	OUT 20D1<>
12D2< 12B6< 12B1<	OUT	XSPI0_RESET0	H11	P16_1/XSPI0_RESET0...	P23_7/ETH2_RXD0/D22-A/D11-B...	D6	ETH2_RXD0_BSC_D11_MCLK4	IN 20A6<>
		NMI_18_HSPI_IO2	H14	P16_2/NMI-B/XSPI0_RESET1...	P24_0/ETH2_RXD1/D23-A/D12-B...	A5	ETH2_RXD1_BSC_D12_MDAT4	IN 20A6<>
		SW1_HSPI_IO3	G12	P16_3/IRQ7-B/XSPI0_RSTO0...	P24_1/ETH2_RXCLK/D24-A/D13-B...	B5	ETH2_RXCLK_BSC_D13_MCLK5	IN 20B6<>
		UART_USB_TX_HSPI_IO4	H15	P16_5/MTIC5U-A...	P24_2/ETH2_RXD2/D25-A/D14-B...	C5	ETH2_RXD2_BSC_D14_MDAT5	IN 20A6<>
		UART_USB_RX_HSPI_IO5	G11	P16_6/IRQ8-B/MTIC5V-A...				
8E8<	OUT	PMOD3A_RESET	G14	P16_7/MTIC5W-A/SCK0-B				
21D7<> 8E8<>	BI	PMOD3A_GPIO1_MDD	F12	P17_0/MDD/ESC_IRQ-B...				
21A2<>	OUT	LED_RED2_TRACE_CTL_M1_POE	F14	P17_3/TRACECTL-B/GTETRGA-A...				
8E4<	IN	SCI_CTS	F13	P17_4/TRACECLK-B/MTIOC3C-A...				
7B3>	BI	USB_OVRCUR	F15	P17_5/RSTOUT#/MTIOC3A-A...				
9C7< 17A9<>	OUT	MIK_PWM_SCK	G15	P17_6/MTIOC3B-A/GTIOC1A-A...				
17A9< 9C7> 8E4>	BI	SCI_RXD	E15	P17_7/MTIOC4A-A/MTIOC4C-D...				

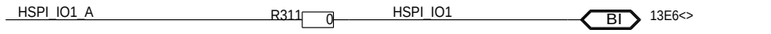


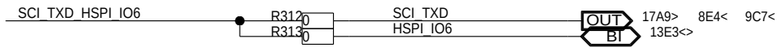


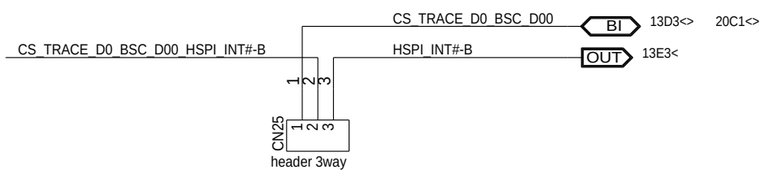












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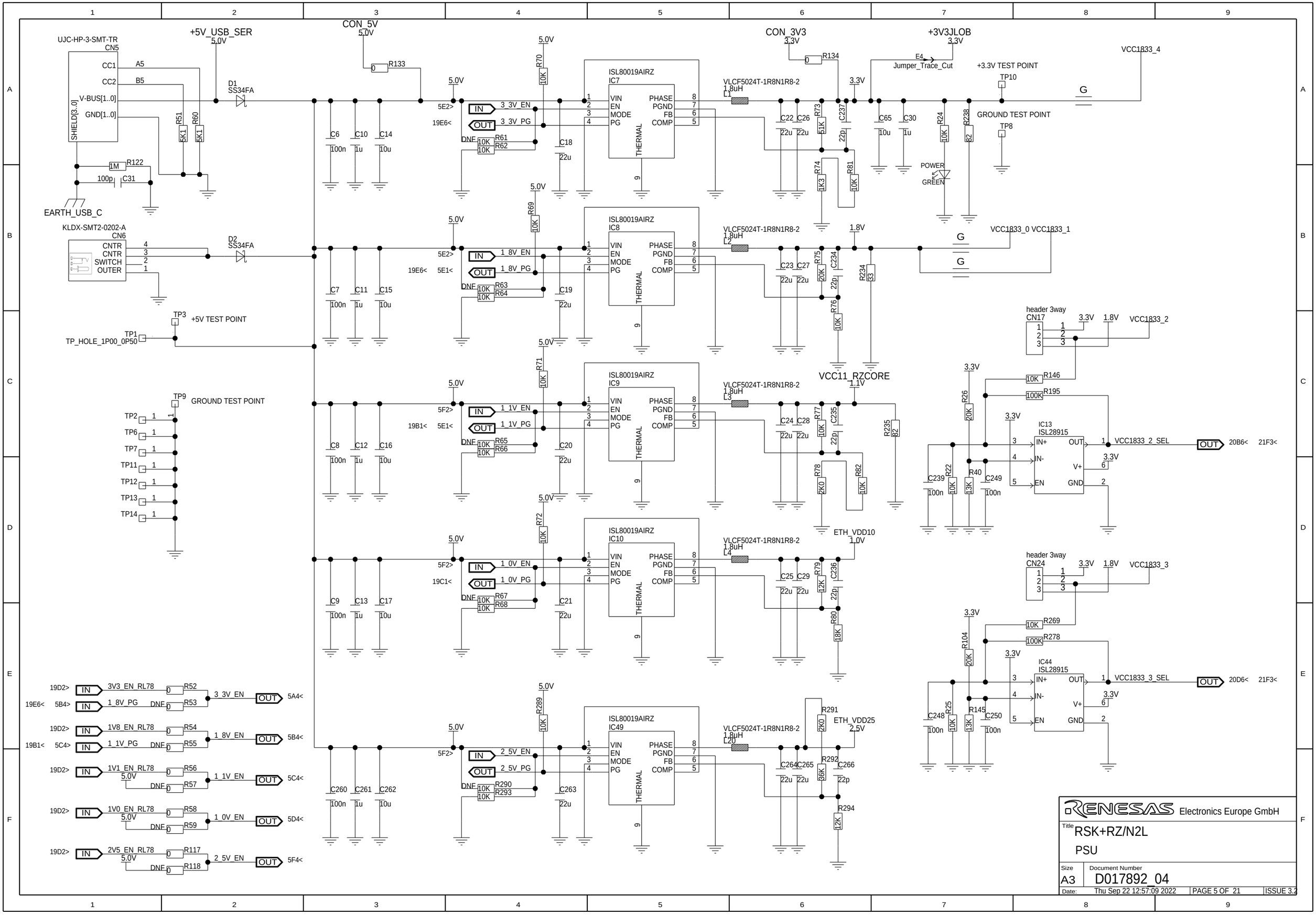
+5V_USB_SER
CON_5V
CON_3V3
+3V3JLOB
UJC-HP-3-SMT-TR
CN5
CC1
CC2
V-BUS[1..0]
GND[1..0]
SHIELD[3..0]
EARTH_USB_C
D1
SS34FA
R133
R134
E4
Jumper_Trace_Cut
+3.3V TEST POINT
TP10
GROUND TEST POINT
TP8
VCC1833_4
KLDX-SMT2-0202-A
CN6
CNTR
SWITCH
OUTER
D2
TP3
+5V TEST POINT
TP1
TP_HOLE_1P00_0P50
TP9
TP2
TP6
TP7
TP11
TP12
TP13
TP14
ISL80019AIRZ
IC7
IC8
IC9
IC10
IC49
VIN
EN
MODE
PG
PHASE
PGND
FB
COMP
THERMAL
IN
OUT
3_3V_EN
3_3V_PG
1_8V_EN
1_8V_PG
1_1V_EN
1_1V_PG
1_0V_EN
1_0V_PG
2_5V_EN
2_5V_PG
VLCF5024T-1R8N1R8-2
1.8uH
L1
L2
L3
L4
L20
VCC11_RZCORE
1.1V
ETH_VDD10
1.0V
ETH_VDD25
2.5V
POWER
GREEN
header 3way
CN17
CN24
VCC1833_0
VCC1833_1
VCC1833_2
VCC1833_3
IC13
IC44
ISL28915
VCC1833_2_SEL
VCC1833_3_SEL
3V3_EN_RL78
1V8_EN_RL78
1V1_EN_RL78
1V0_EN_RL78
2V5_EN_RL78
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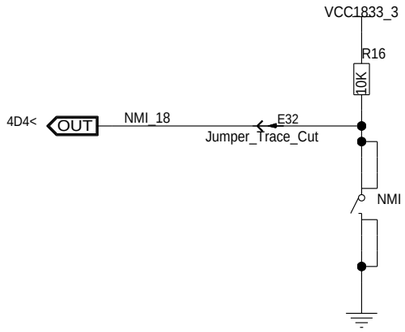
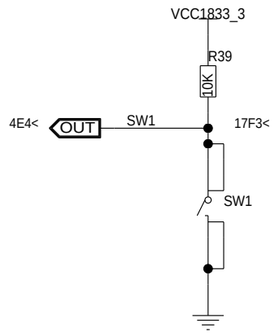
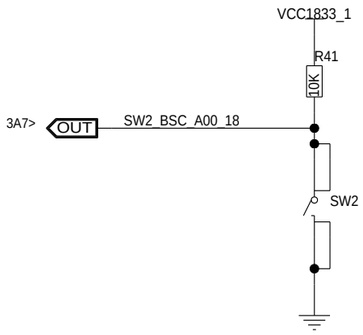
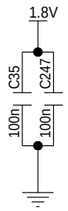
USER PUSH-BUTTONS

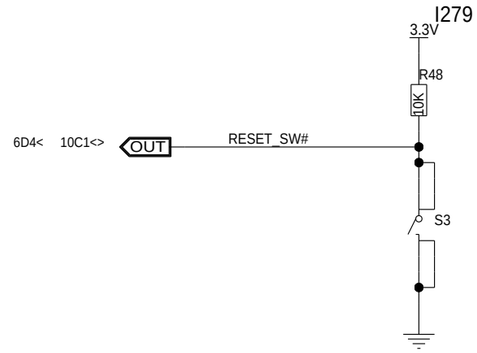


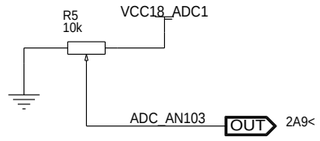


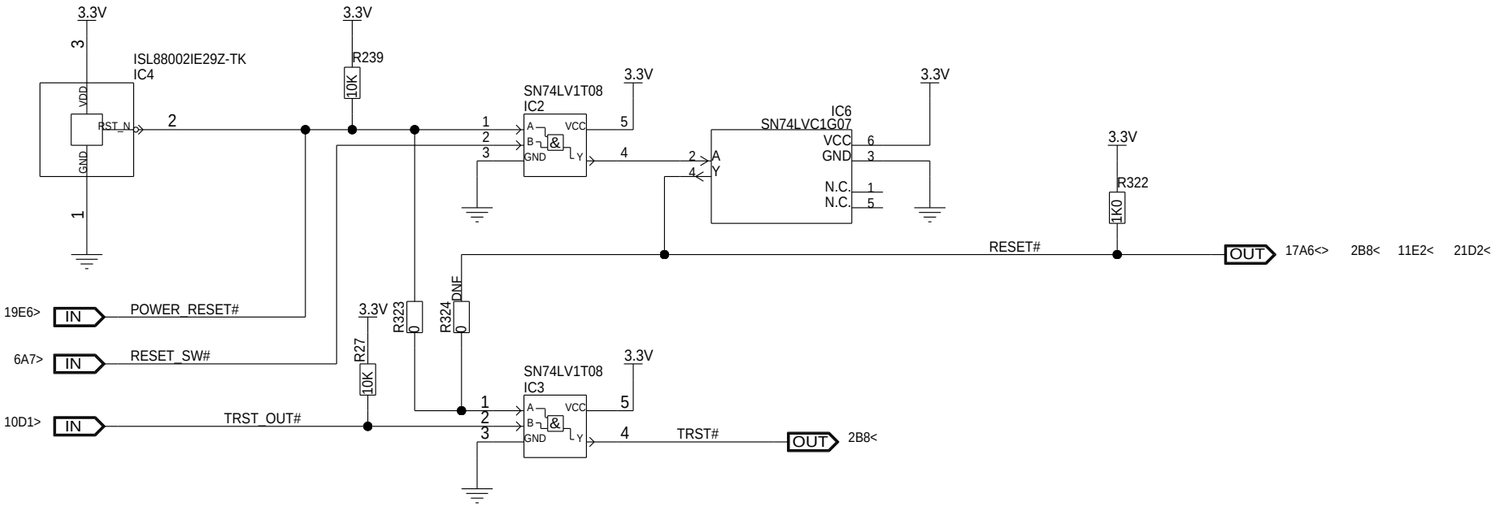




RESET PUSH-BUTTON

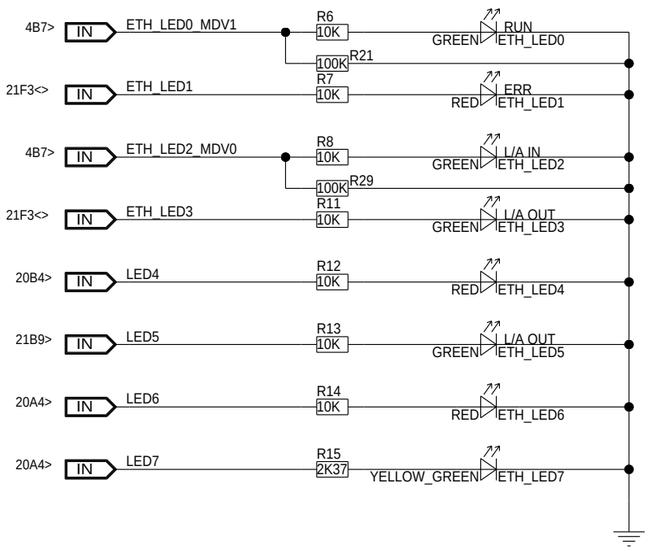


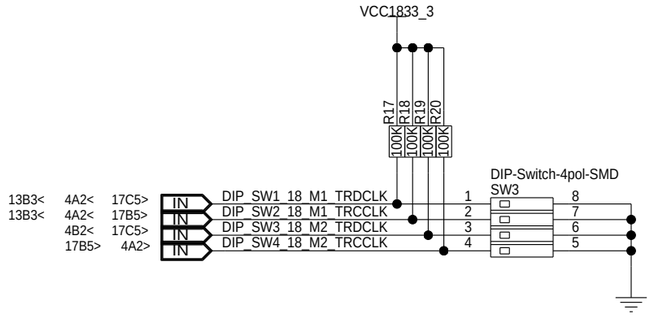




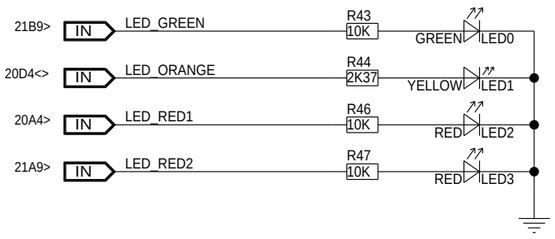
ETHER-CAT LEDS

MDV Signals are sampled at reset
Low level (pulled down by resistors)
causes interfaces to be set at 1.8V





RSK USER LEDS



RENESAS Electronics Europe GmbH

Title: RSK+RZ/N2L
User Interface

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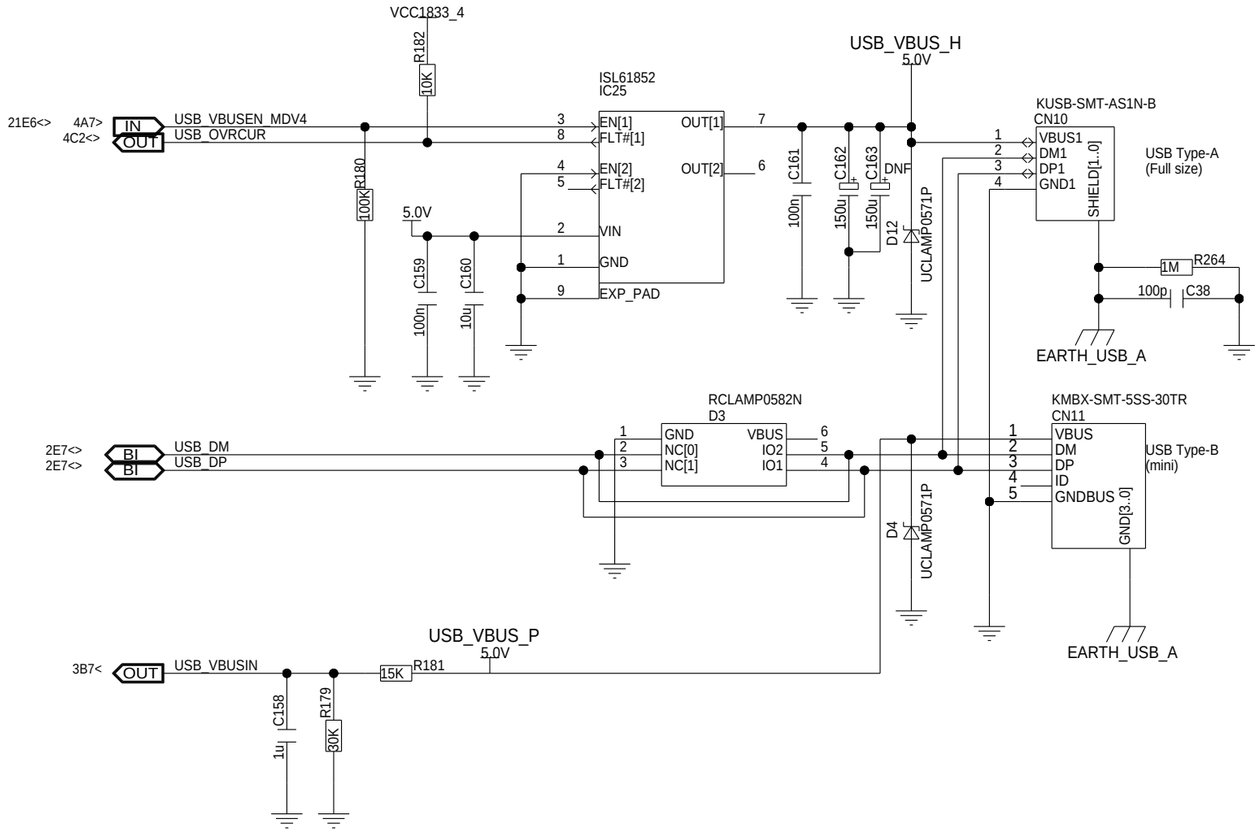

Electronics Europe GmbH	
Title	RSK+RZ/N2L USB
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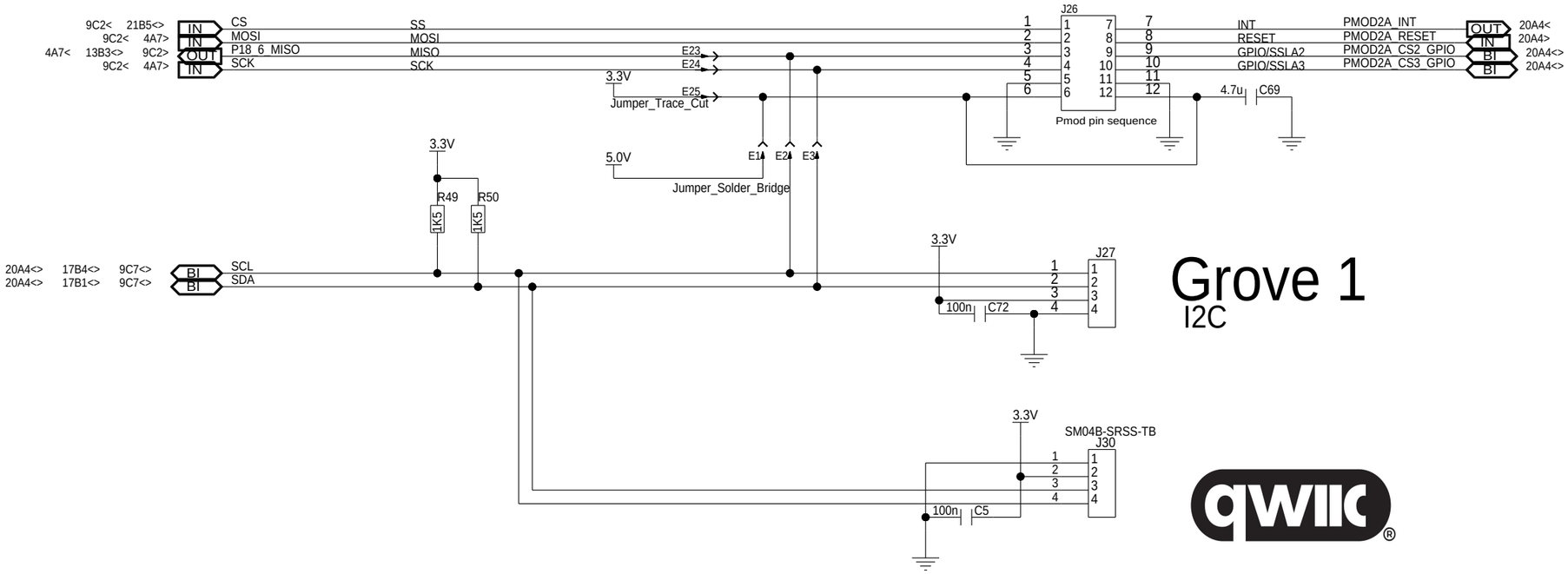
PMOD-2A

SPI

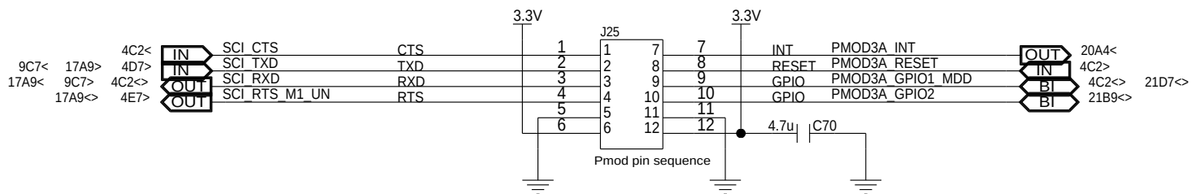


Grove 1

I2C

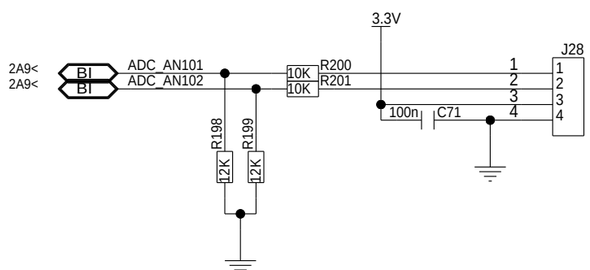
PMOD-3A

UART



Grove 2

ANALOG



RENESAS Electronics Europe GmbH

Title: RSK+RZ/N2L
PMOD, Grove and QWIIC Connections

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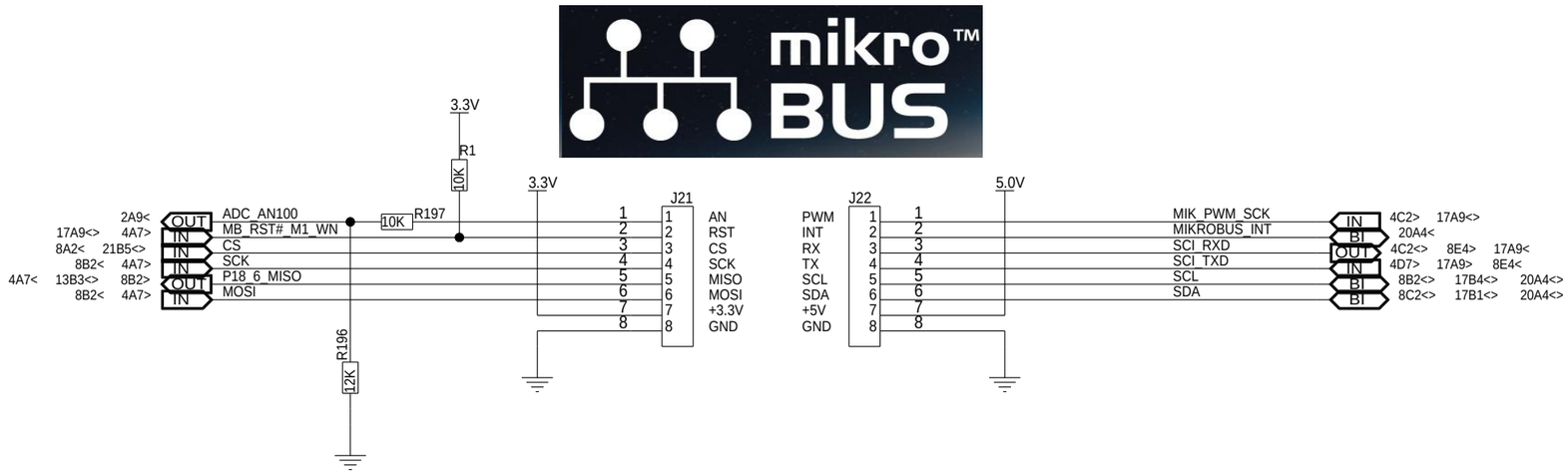

RENESAS Electronics Europe GmbH

Title: RSK+RZ/N2L
mikroBUS Connection

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For normal operation (on-board debugger):
Jumper J9 open

For external debug:
Jumper J9 open

JTAG CONNECTORS

J-LINK S124 RE-PROG.

J-Link OB USB

J13
E30 Jumper_Trace_Cut
SWDIO
SWCLK
TDO
TDI
TMS
TCK
TDO
TDI
RESET_SW#
TRST_OUT#

J20
N.C.
N.C.

Mictor_connector
CN9
TRACE_CLK
DBGACK
EXTTRG
VTREF
VTSUPPLY
TRACE_D7
TRACE_D6
TRACE_D5
TRACE_D4
TRACE_D3
TRACE_D2
TRACE_D1
(Logic=0)
(Logic=0)
(Logic=1)
TRACE_CTL
TRACE_D0
GND[4..0]

DNF

U7
R7FS124773A01CNF
P100
P101
P102
P103
P104
P112
P111
P110
P109
P108/SWDIO
P300/SWCLK
P301
P200
P201/MD
RES
VCC_USB_LDO
VCC_USB
USB_DP
USB_DM
VSS_USB
P015
P014
P013
P012
AVCC0
AVSS0
P011/VREFLO
P010/REFH0
P001
P000
EXPOSED_PAD
P400
VCL
P215/XCIN
P214/XCOUT
VSS
P213/XTAL
P212/EXTAL
VCC
P408
P407

YELLOW LED4

needle_adapter_6pin
J1
VTREF
RESET#
GND
SWDIO
SWCLK
SWO

JLOB_RESET#
JLOB_SWCLK
JLOB_SWDIO

RCLAMP0582N
D7
GND
NC[0]
NC[1]
VBUS
IO2
IO1
JL_USB_DP
JL_USB_DM

J10
VBUS
DM
DP
ID
GND
SHIELD[3..0]

NDS331NTR
TR1

EARTH_USB_DEBUG
To isolate VBUS from S124 if main board not powered!

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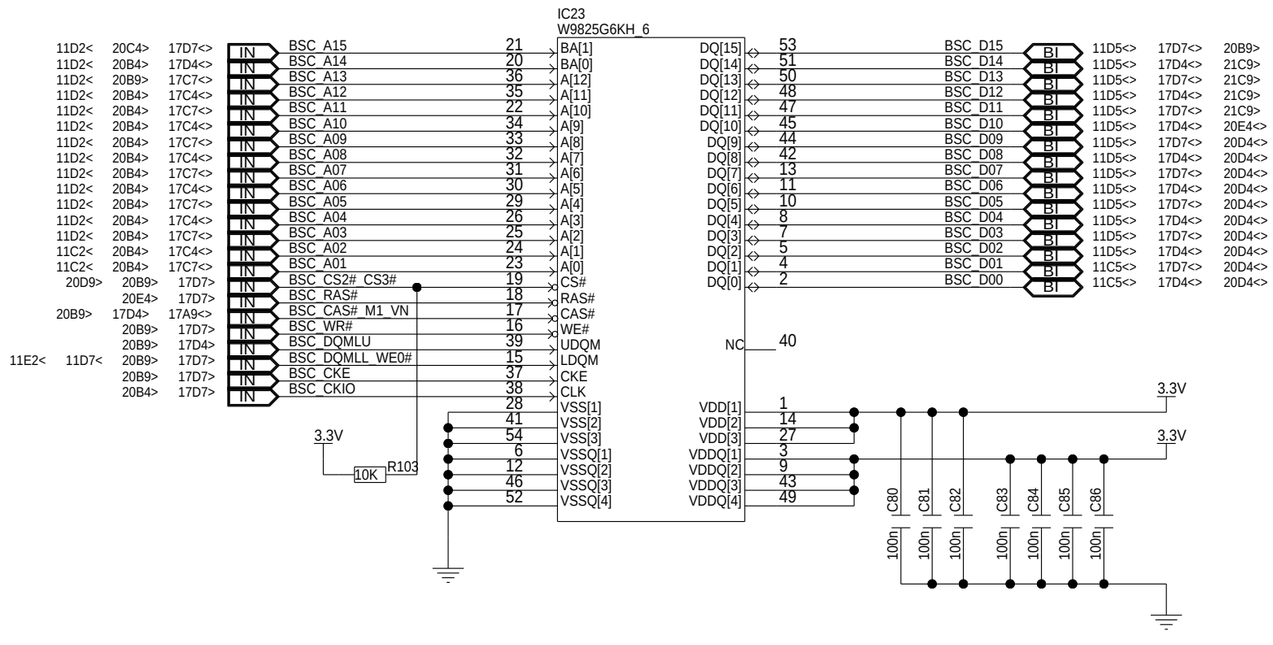
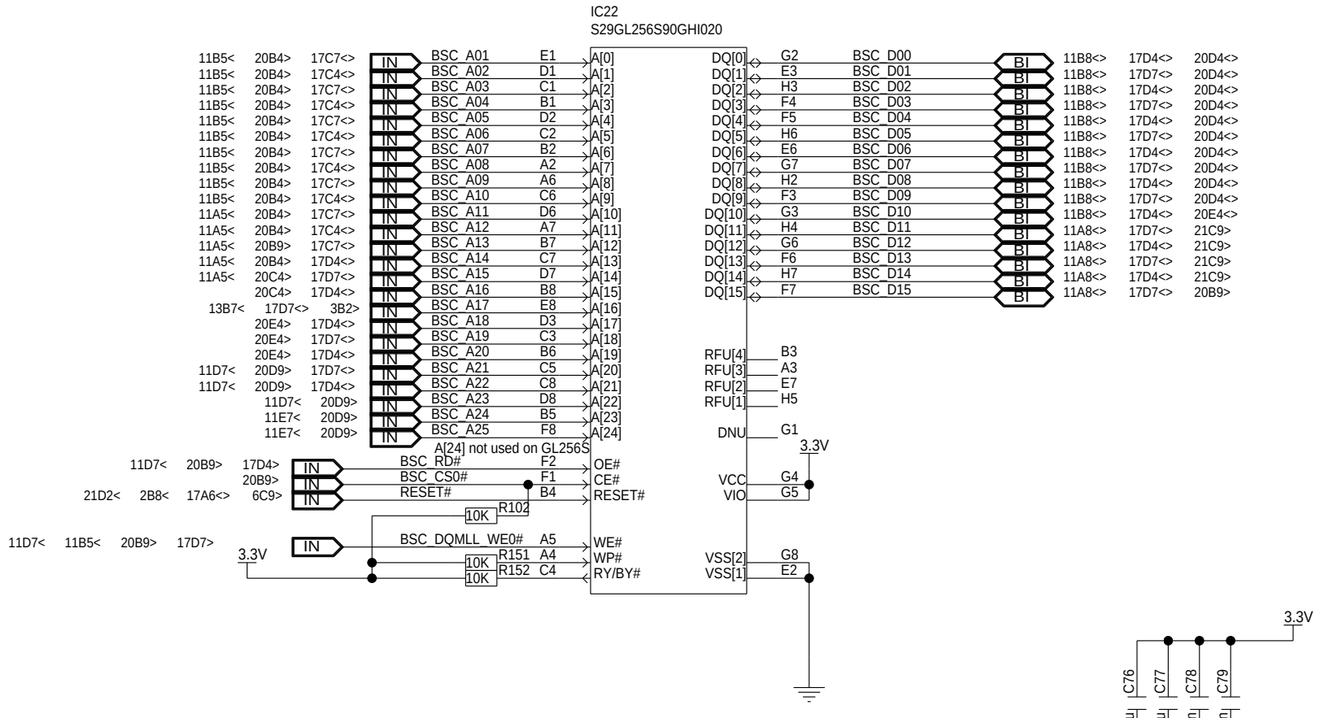
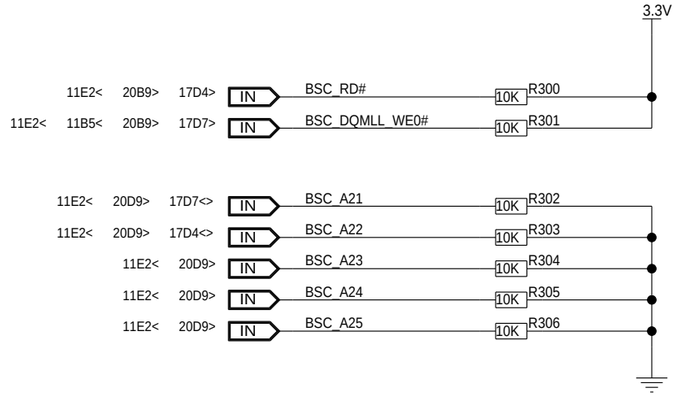
RENESAS Electronics Europe GmbH

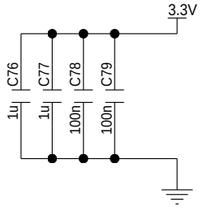
SDRAM: 32MB

NOR Flash: 32MB









RENESAS Electronics Europe GmbH

Title: RSK+RZ/N2L
SDRAM and NOR Flash

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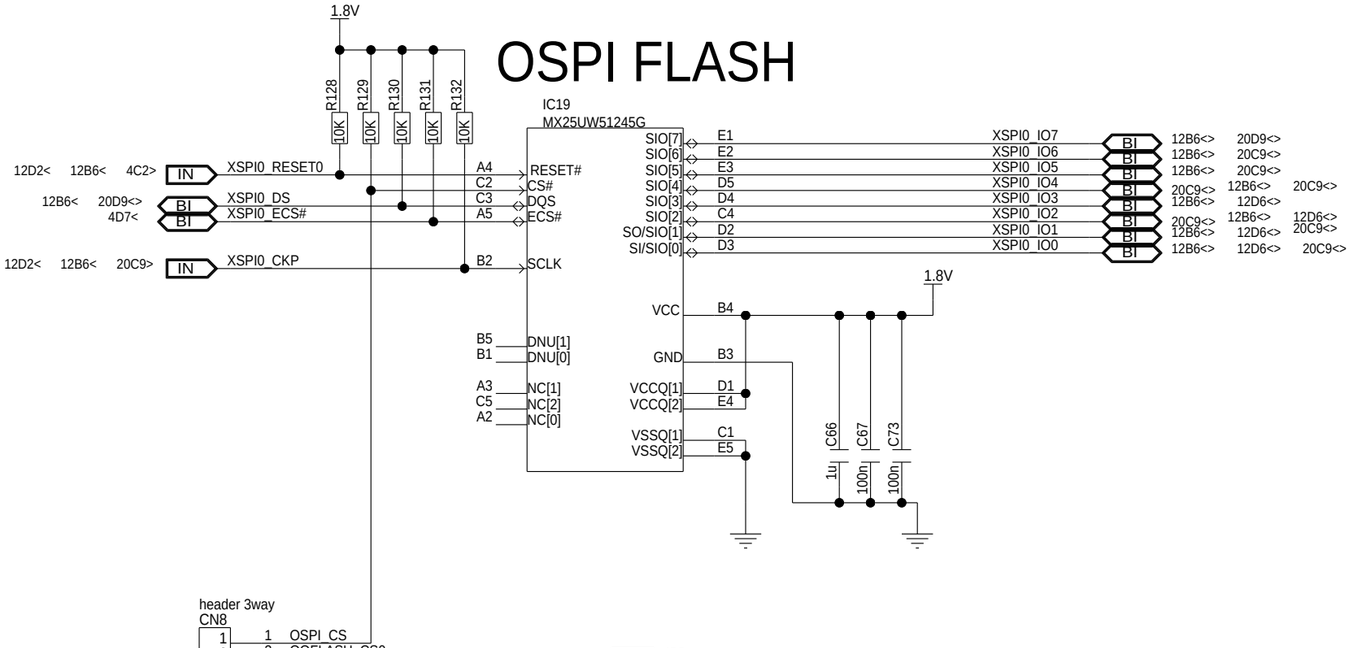
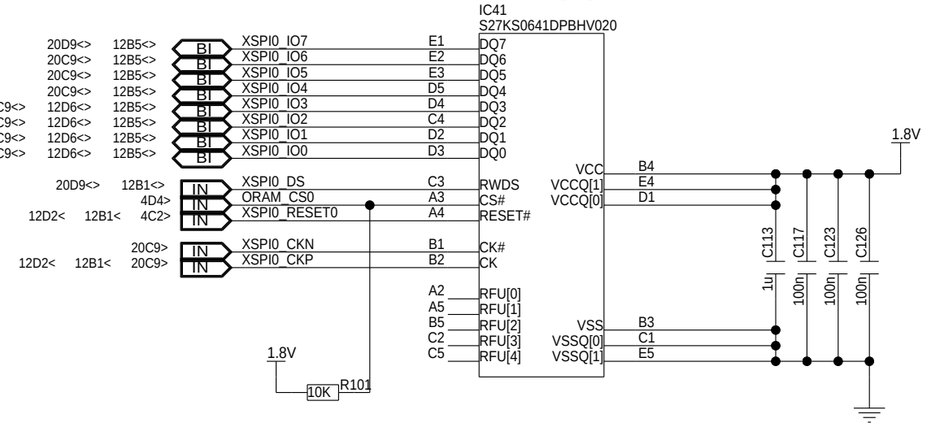
Octal SPI Flash: 64MB Octal SPI HyperRAM: 8MB

Quad SPI Flash: 64MB

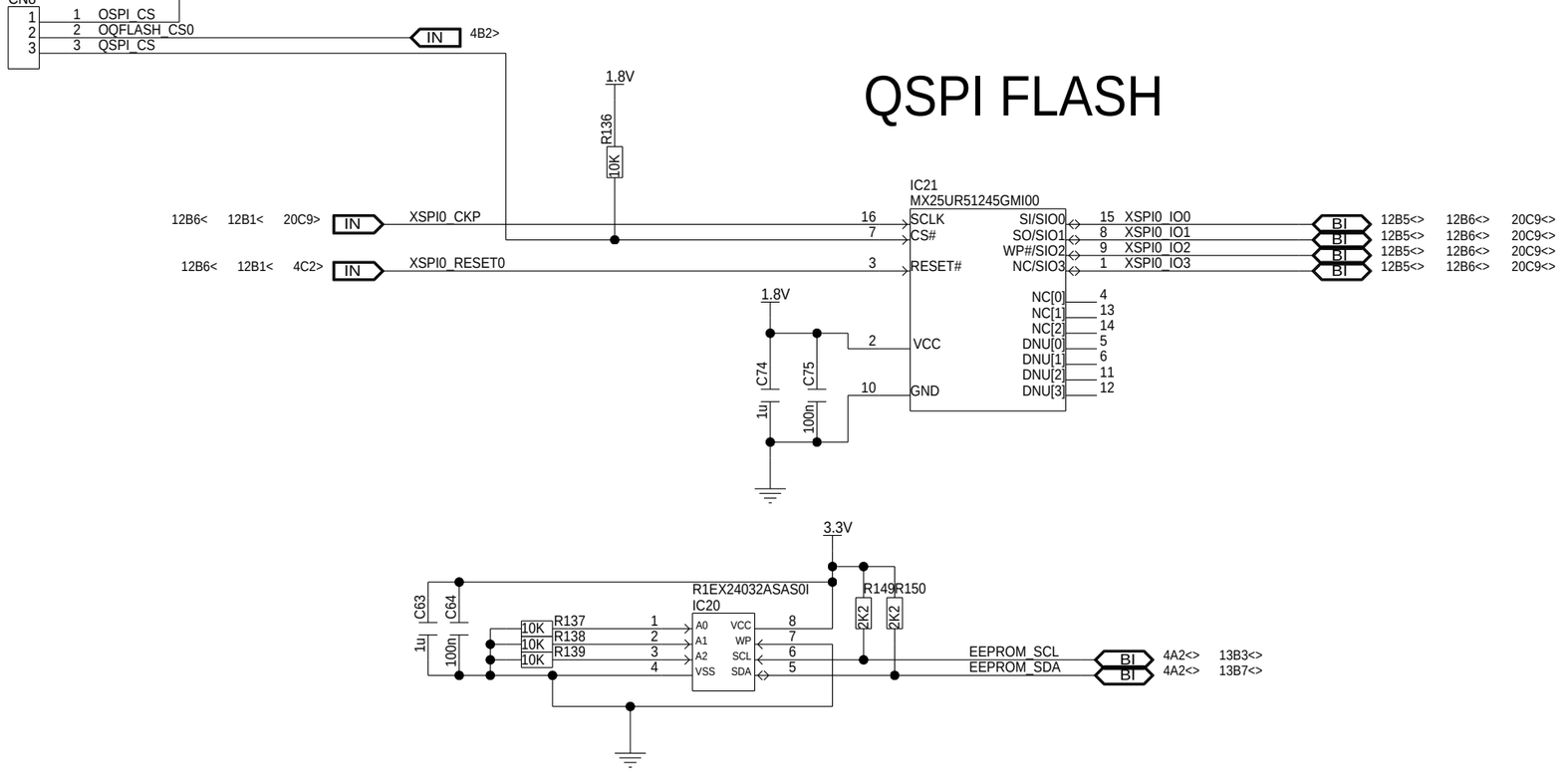
OSPI FLASH



OSPI HyperRAM



QSPI FLASH



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Title: RSK+RZ/N2L
SPI Flash Memory

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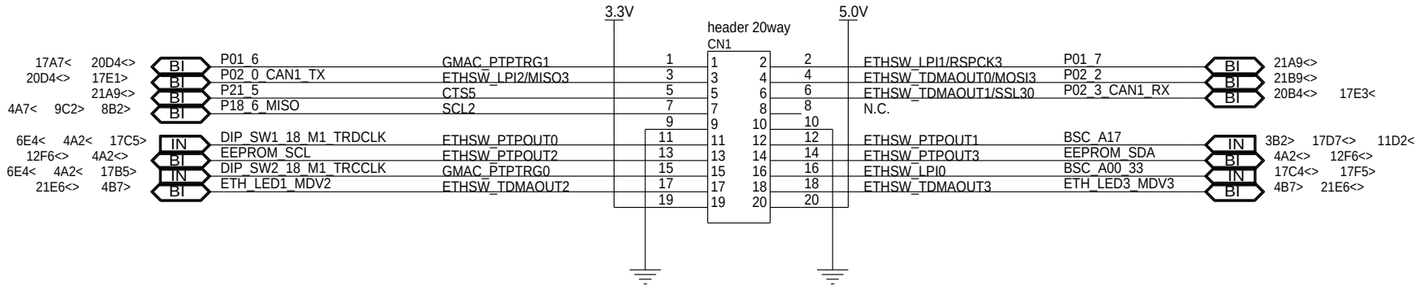
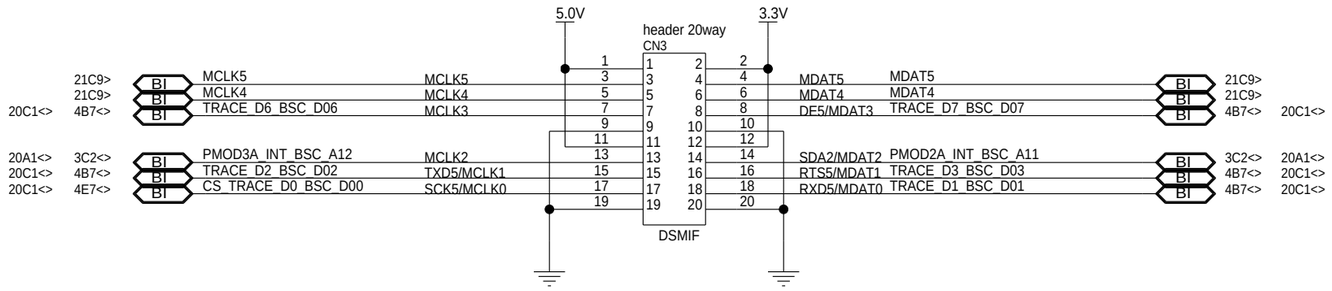
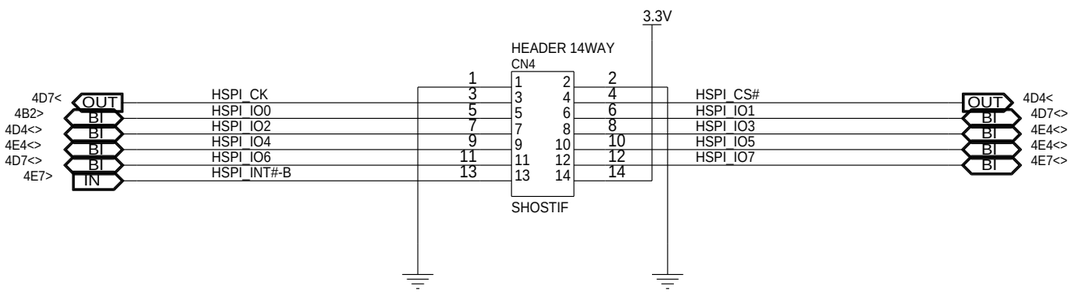
PIN HEADERS







RENESAS Electronics Europe GmbH

Title: RSK+RZ/N2L
Pin Headers

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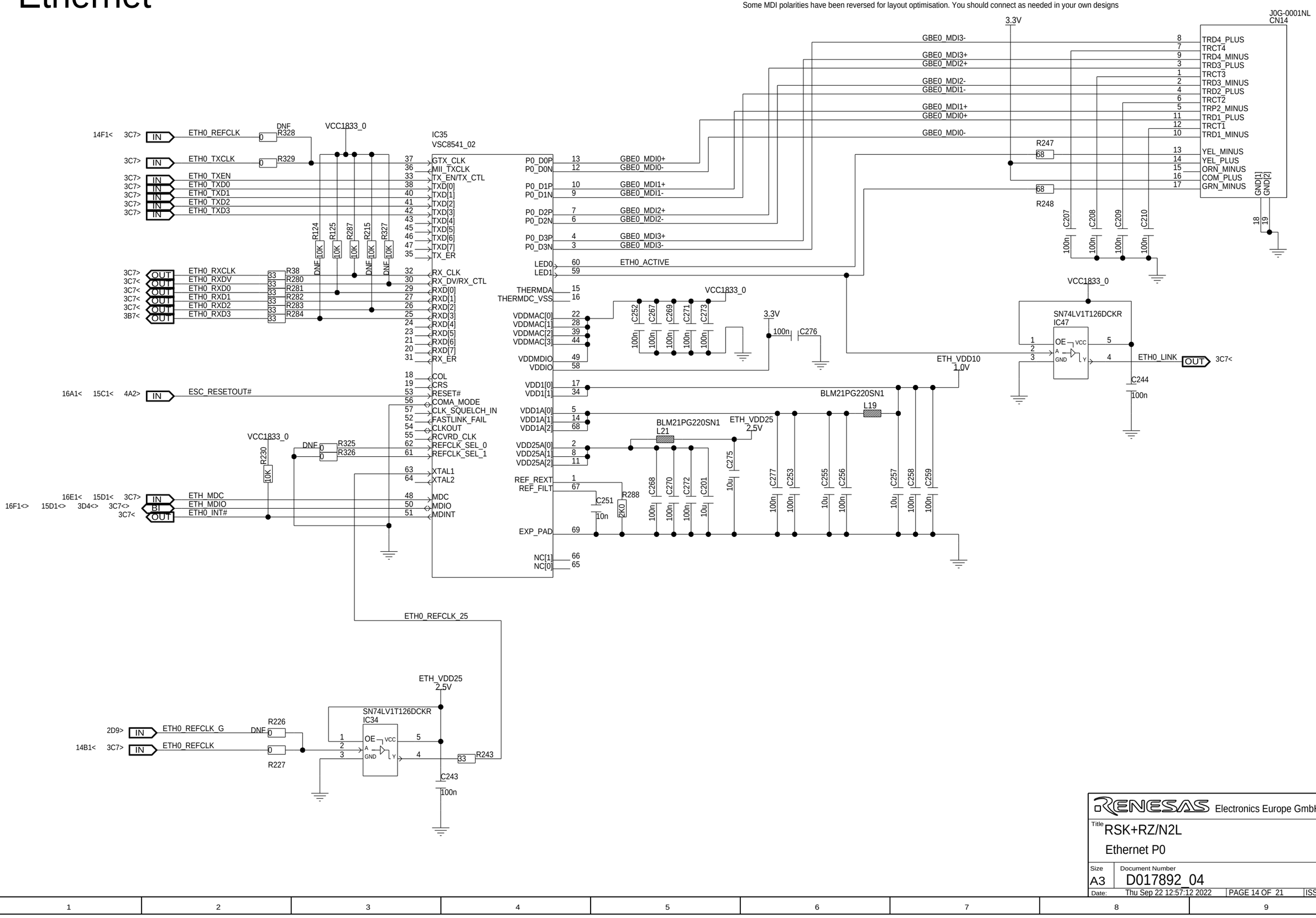
Ethernet

Some MDI polarities have been reversed for layout optimisation. You should connect as needed in your own designs



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RENESAS Electronics Europe GmbH

Some MDI polarities have been reversed for layout optimisation. You should connect as needed in your own designs

IC31
VSC8541_02

J0G-0001NL
CN13

IC42
SN74LV1T126DCKR

IC30
SN74LV1T126DCKR

Some MDI polarities have been reversed for layout optimisation. You should connect as needed in your own designs

header 3way CN22
ESC_RESETOUT#
ESC_B_RESETOUT#
header 3way CN20
ETH_MDC
ETH2_MDC
header 3way CN21
ETH_MDIO
ETH2_MDIO
ETH2_INT#_BSC_WAIT#
ETH2_REFCLK
ETH2_TXCLK
ETH2_TXEN
ETH2_TXD0
ETH2_TXD1
ETH2_TXD2
ETH2_TXD3
ETH2_RXCLK
ETH2_RXDV
ETH2_RXD0
ETH2_RXD1
ETH2_RXD2
ETH2_RXD3
IC16
VSC8541_02
GTX_CLK
MII_TXCLK
TX_EN/TX_CTL
TXD[0]
TXD[1]
TXD[2]
TXD[3]
TXD[4]
TXD[5]
TXD[6]
TXD[7]
TX_ER
RX_CLK
RX_DV/RX_CTL
RXD[0]
RXD[1]
RXD[2]
RXD[3]
RXD[4]
RXD[5]
RXD[6]
RXD[7]
RX_ER
COL
CRS
RESET#
COMA_MODE
CLK_SQUELCH_IN
FASTLINK_FAIL
CLKOUT
RCVRD_CLK
REFCLK_SEL_0
REFCLK_SEL_1
XTAL1
XTAL2
MDC
MDIO
MDINT
P0_D0P
P0_D0N
P0_D1P
P0_D1N
P0_D2P
P0_D2N
P0_D3P
P0_D3N
LED0
LED1
THERMDA
THERMDC_VSS
VDDMAC[0]
VDDMAC[1]
VDDMAC[2]
VDDMAC[3]
VDDMDIO
VDDIO
VDD1[0]
VDD1[1]
VDD1A[0]
VDD1A[1]
VDD1A[2]
VDD25A[0]
VDD25A[1]
VDD25A[2]
REF_REXT
REF_FILT
EXP_PAD
NC[1]
NC[0]
GBE2_MDI0+
GBE2_MDI0-
GBE2_MDI1+
GBE2_MDI1-
GBE2_MDI2+
GBE2_MDI2-
GBE2_MDI3+
GBE2_MDI3-
ETH2_ACTIVE
J0G-0001NL
CN7
TRD4_PLUS
TRCT4
TRD4_MINUS
TRD3_PLUS
TRCT3
TRD3_MINUS
TRD2_PLUS
TRCT2
TRP2_MINUS
TRD1_PLUS
TRCT1
TRD1_MINUS
YEL_MINUS
YEL_PLUS
ORN_MINUS
COM_PLUS
GRN_MINUS
GND[1]
GND[2]
SN74LV1T126DCKR
IC5
IC11
ETH2_LINK
ETH2_REFCLK_G
ETH2_REFCLK
ETH2_REFCLK_25
VCC1833_2
3.3V
ETH_VDD10
1.0V
ETH_VDD25
2.5V
BLM21PG220SN1
L5
L6
R105
R106
R107
R108
R109
R110
R111
R112
R113
R114
R115
R116
R119
R120
R126
R127
R144
R147
R202
R265
R335
R336
R337
R338
R339
R341
C36
C40
C41
C42
C43
C44
C45
C46
C47
C48
C49
C50
C52
C53
C54
C58
C59
C60
C61
C62
C195
C196
C197
C198
C211
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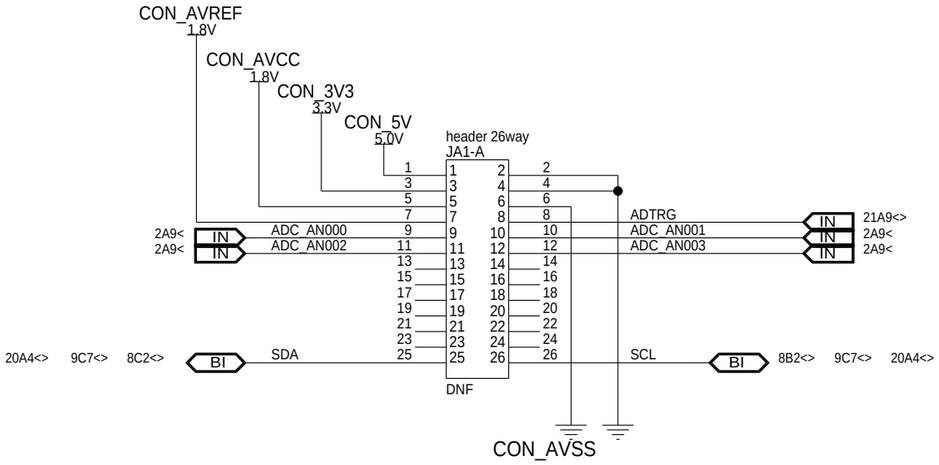
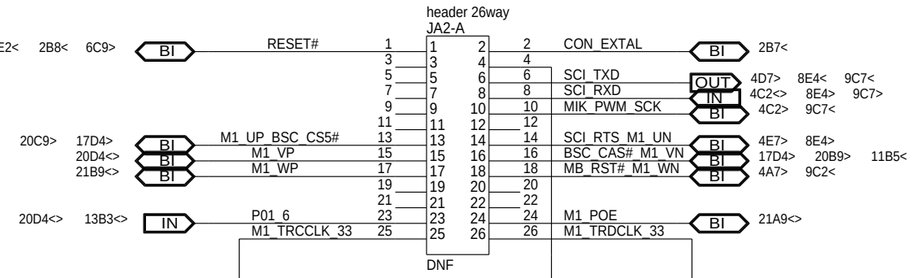
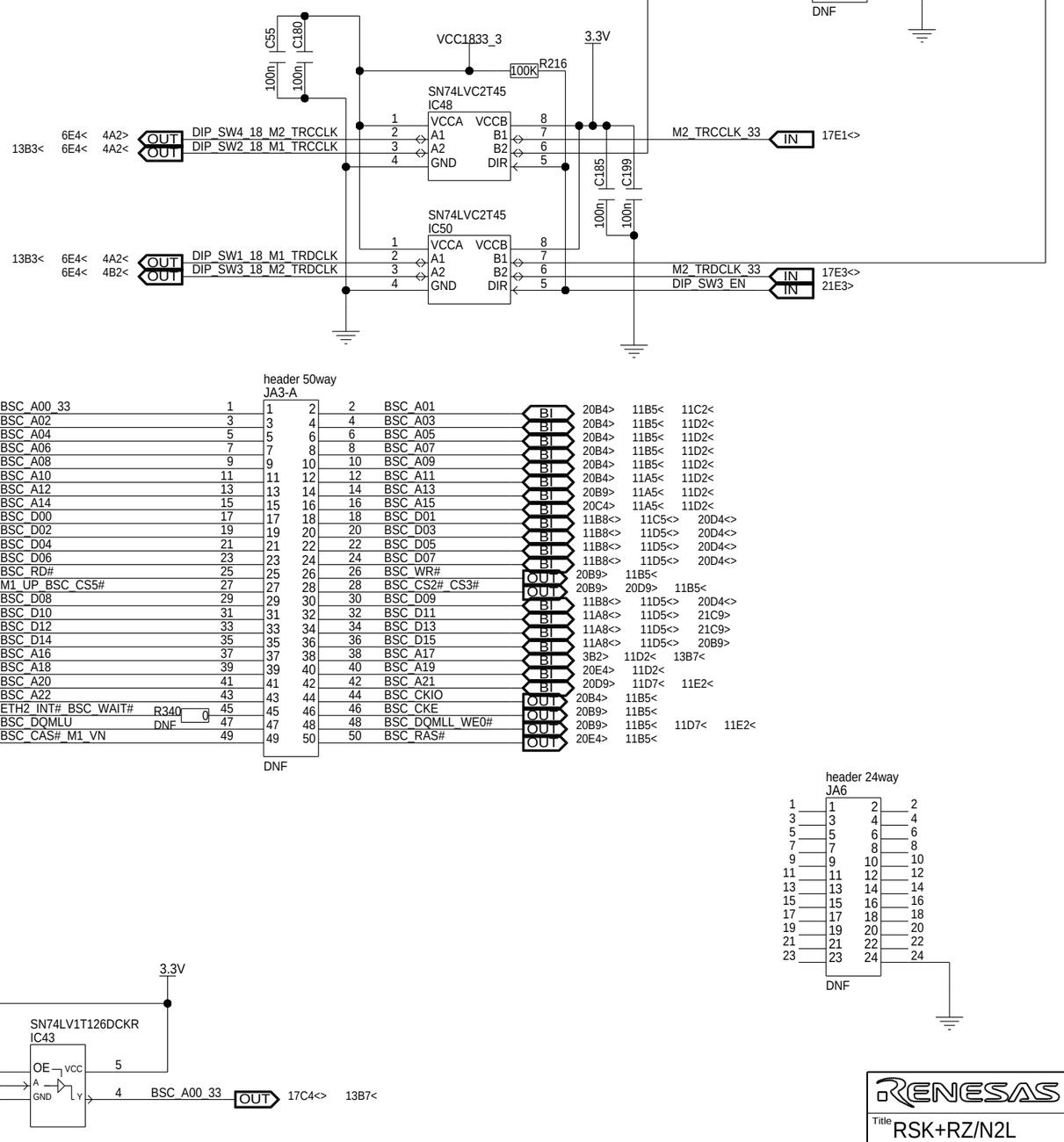
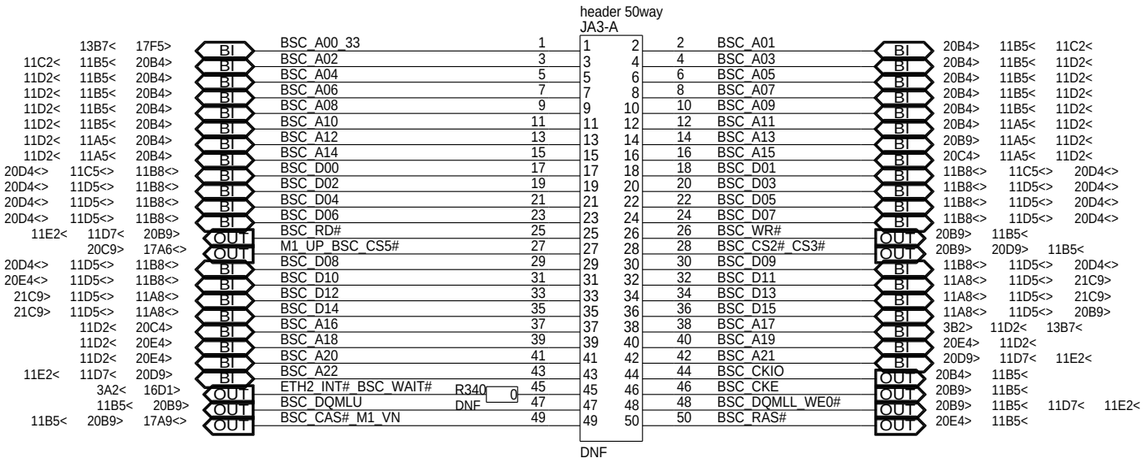
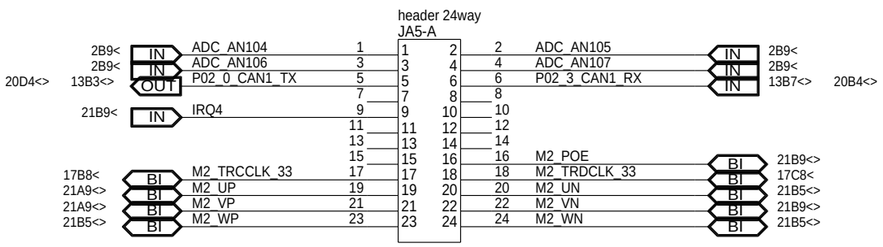
Application Headers

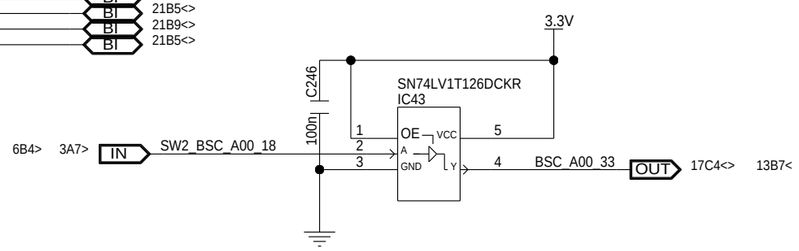












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Title: RSK+RZ/N2L
Application Headers

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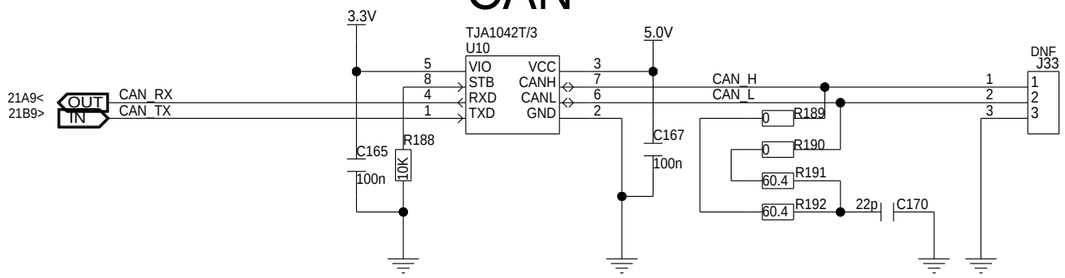
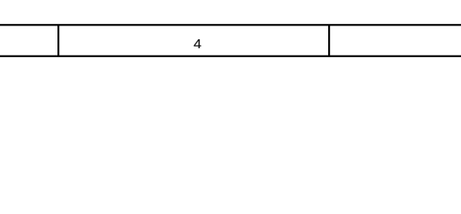
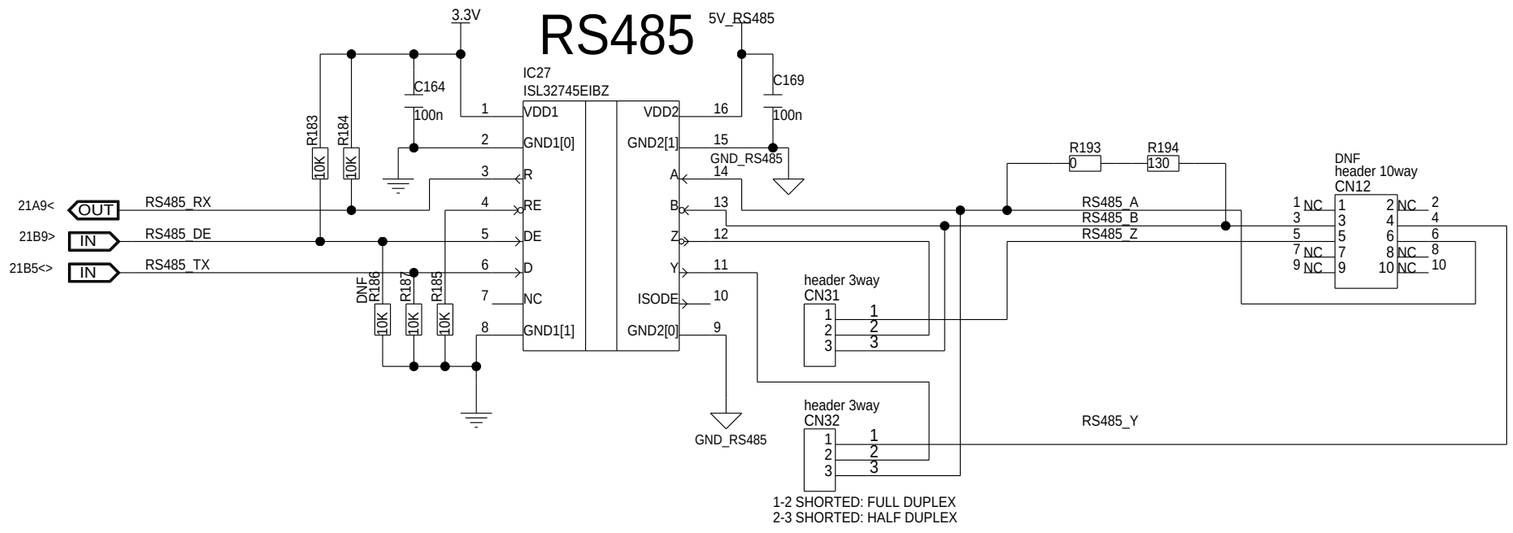
CAN



RS-485



RS485



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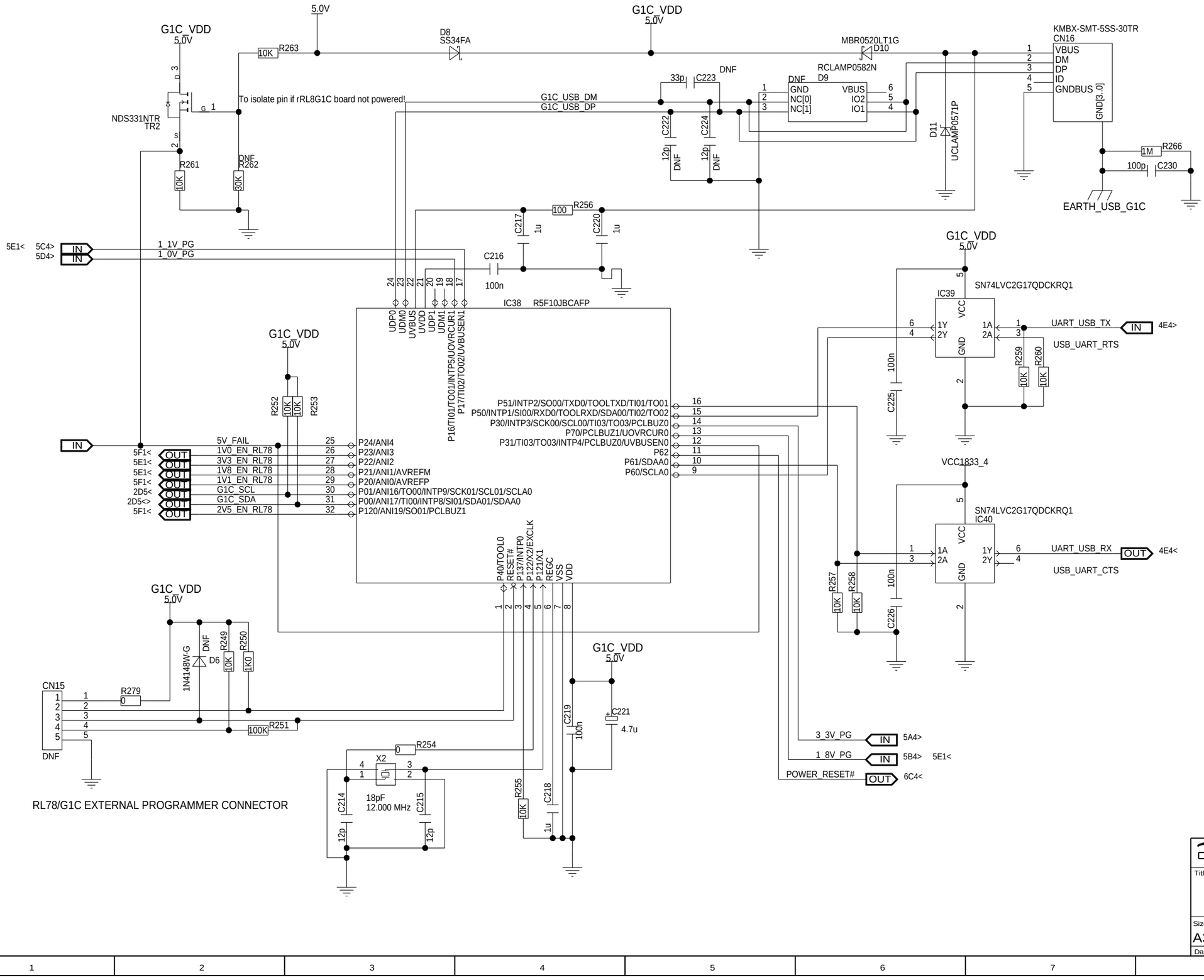
RL78G1C USB to Serial



RL78/G1C EXTERNAL PROGRAMMER CONNECTOR

RENESAS Electronics Europe GmbH

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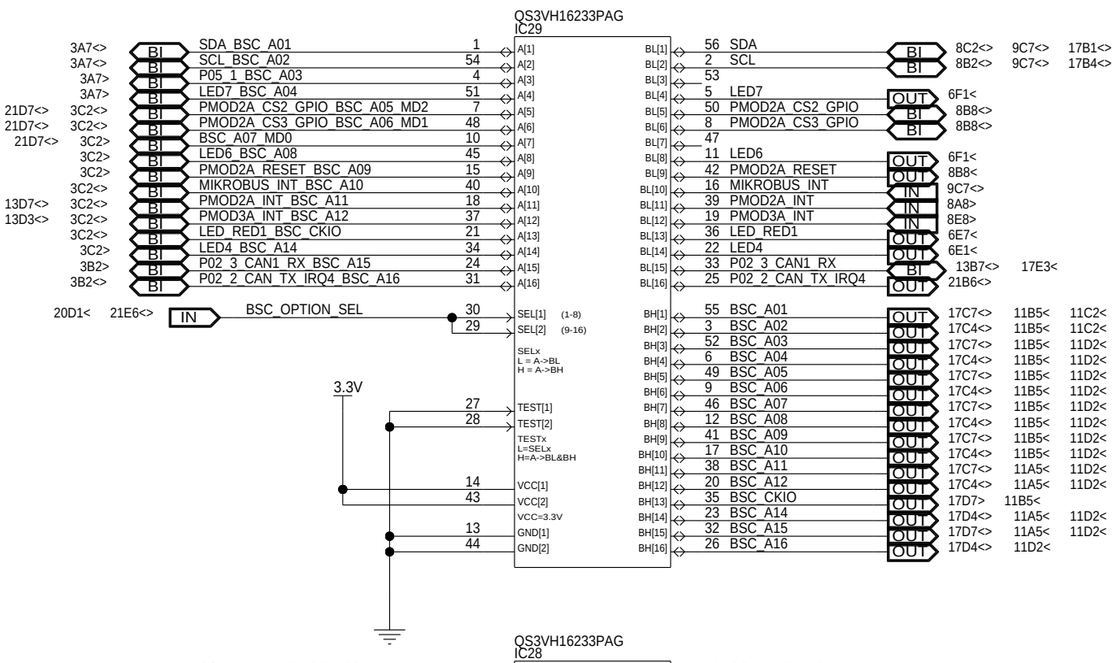

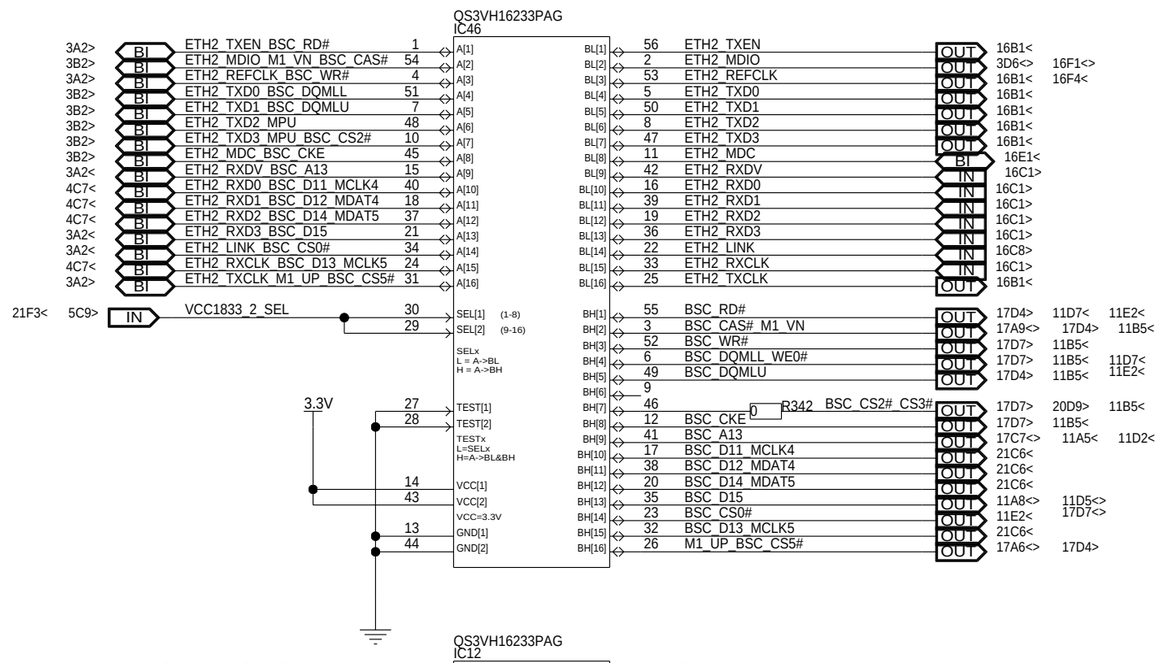

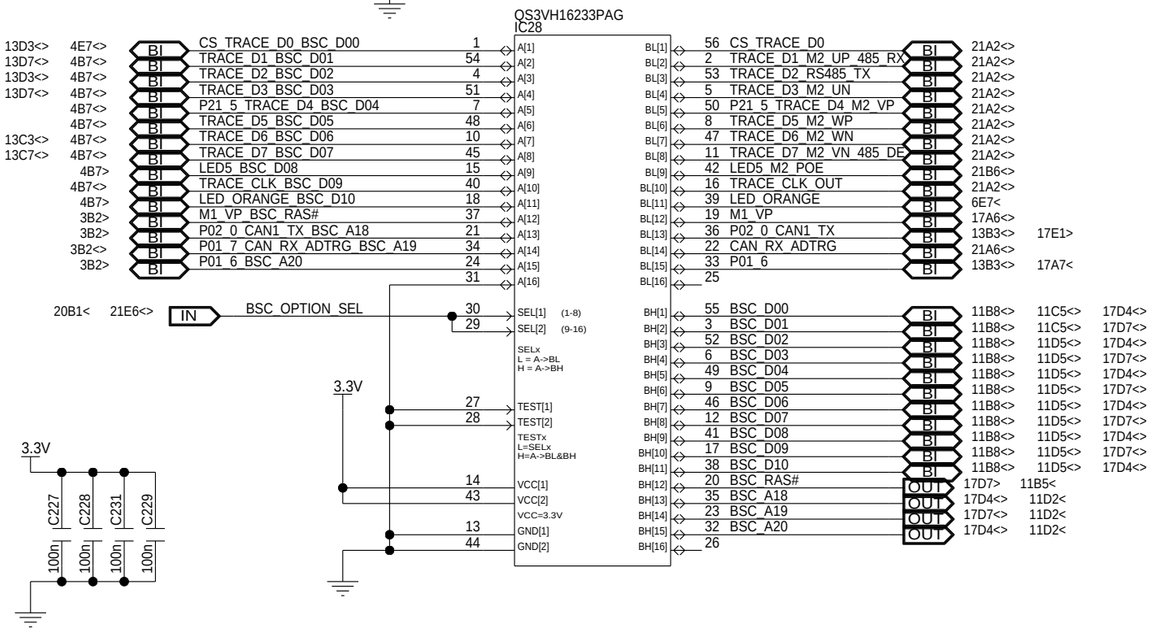

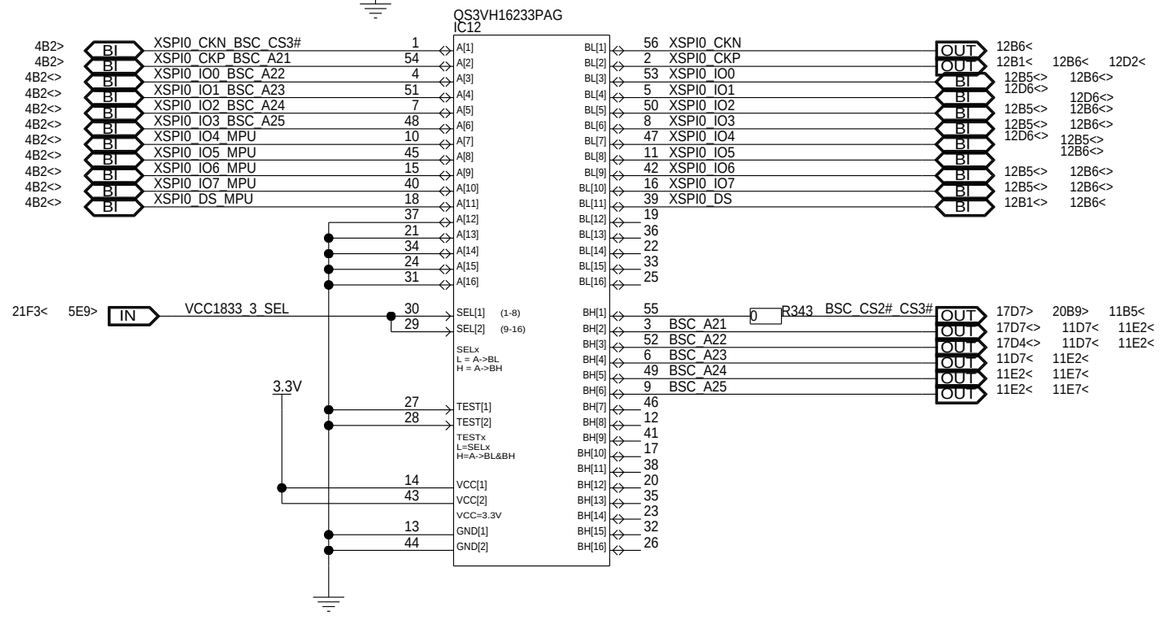

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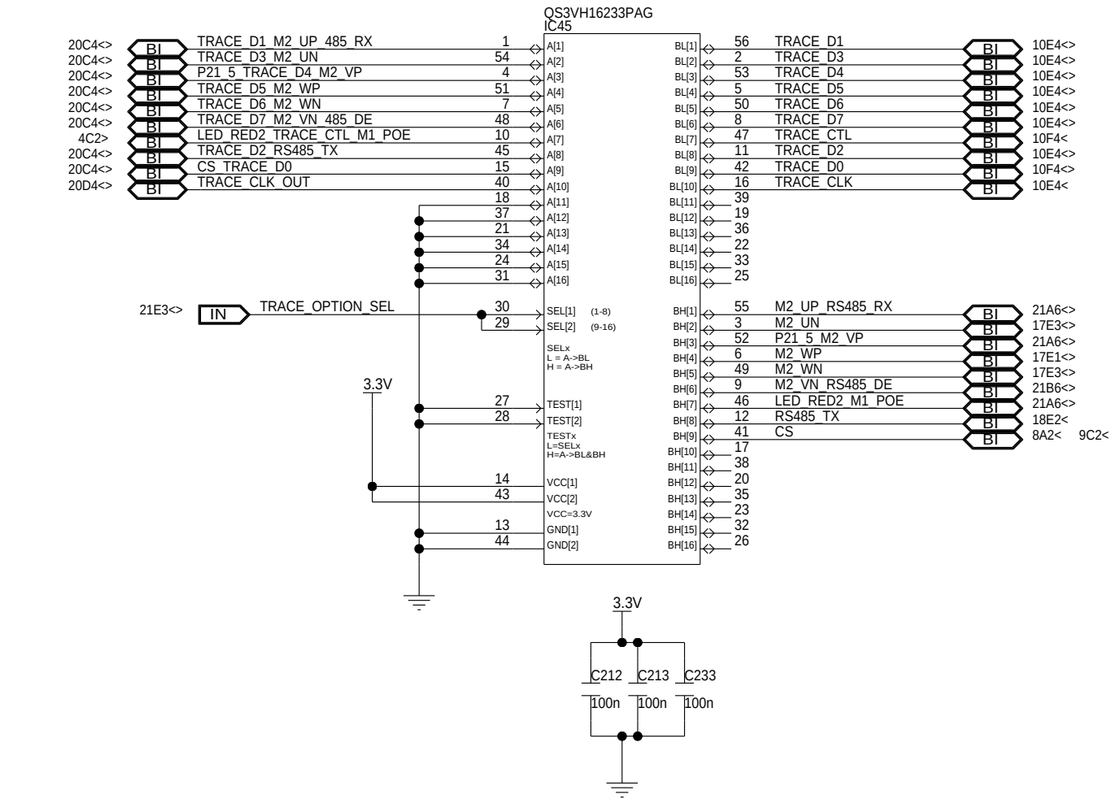

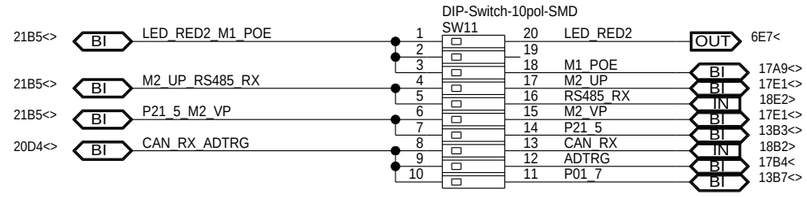

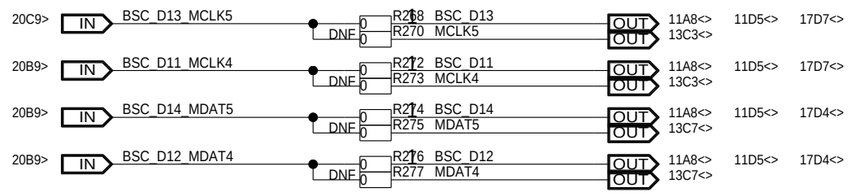

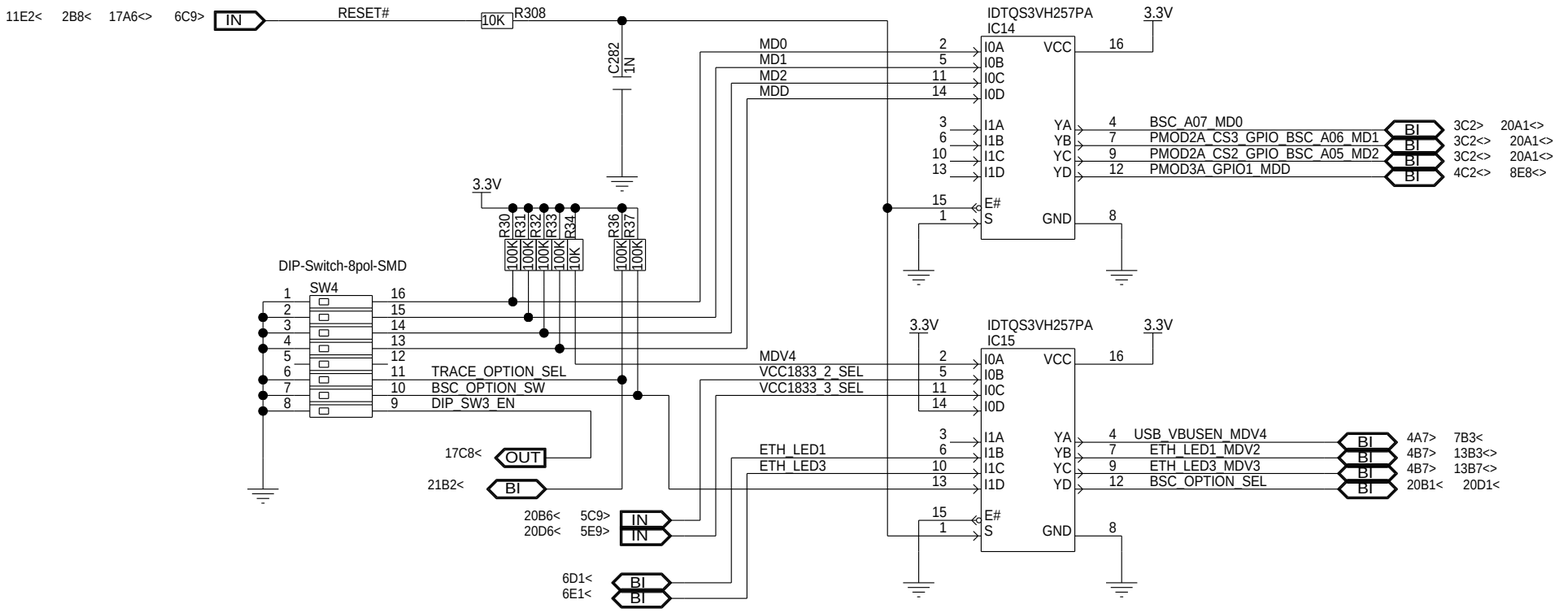

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