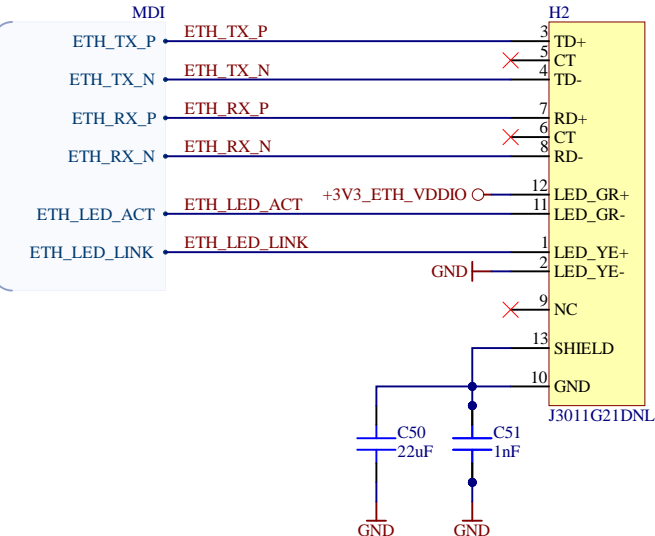
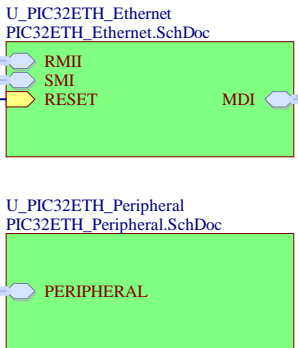
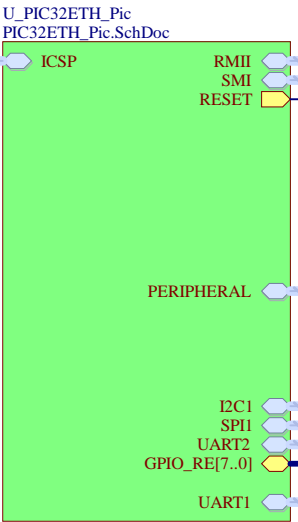
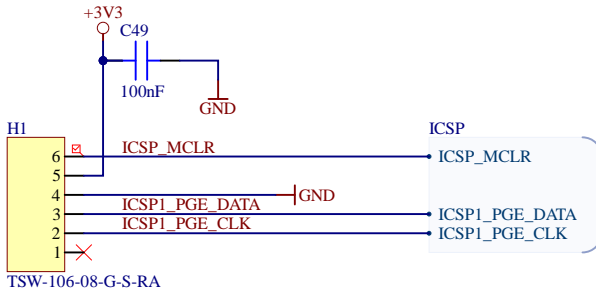
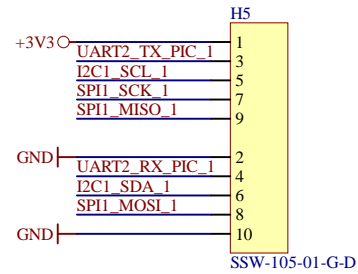
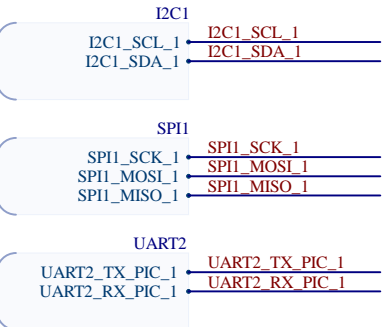
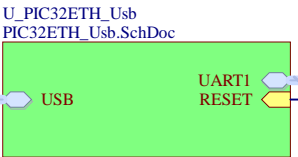
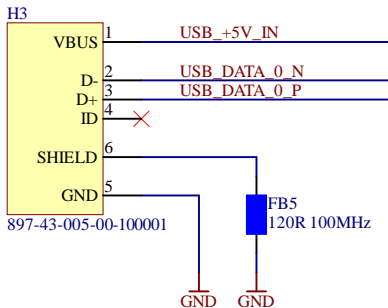


PIC Kit3



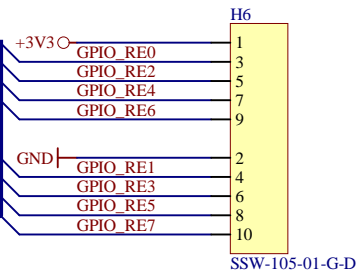
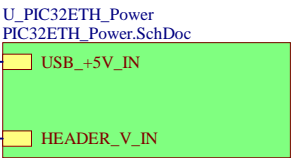
Ethernet

USB

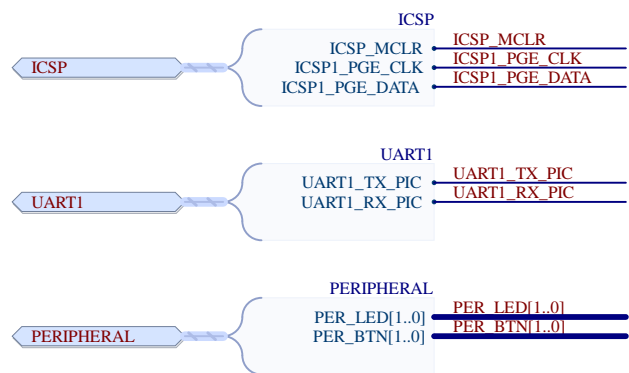


GPIO 1

9V Input



GPIO 2

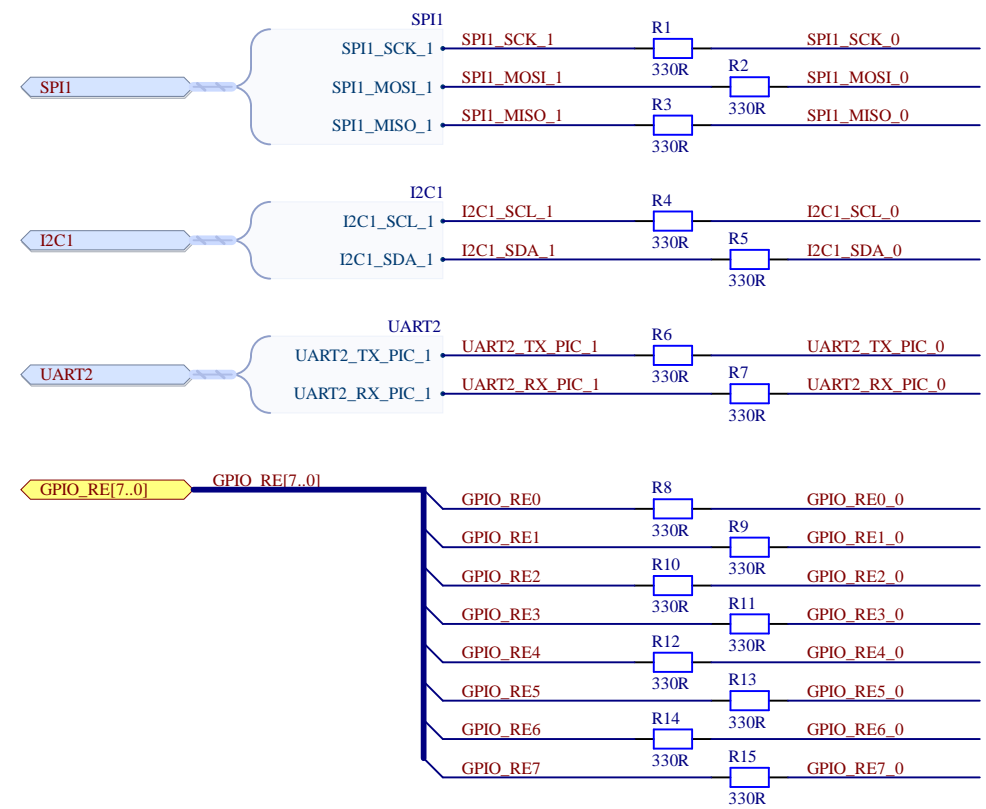


NOTE
Signals required for programming the PIC microcontroller by in circuit serial programming

NOTE
UART1_PIC_TX is coming from the PIC microcontroller and UART1_PIC_RX is going to it

NOTE
Simple in and output signals that can be used for development

DESIGN NOTE
Selected PPS pins of the PIC microcontroller
UART1_RX_PIC: RD10
UART1_TX_PIC: RD11
UART2_RX_PIC_1: RD4
UART2_TX_PIC_1: RD5
SPI1_MISO_1: RD2
SPI1_MOSI_1: RD3



NOTE
SPI bus which will be connected to the header

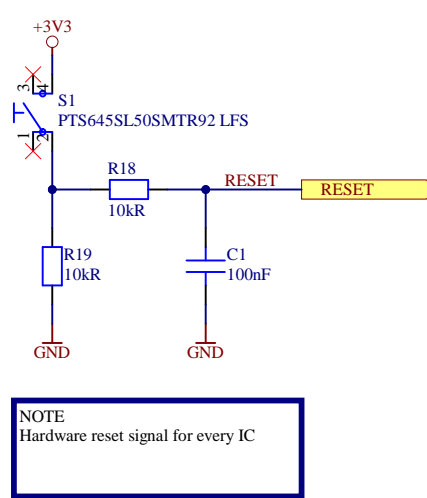
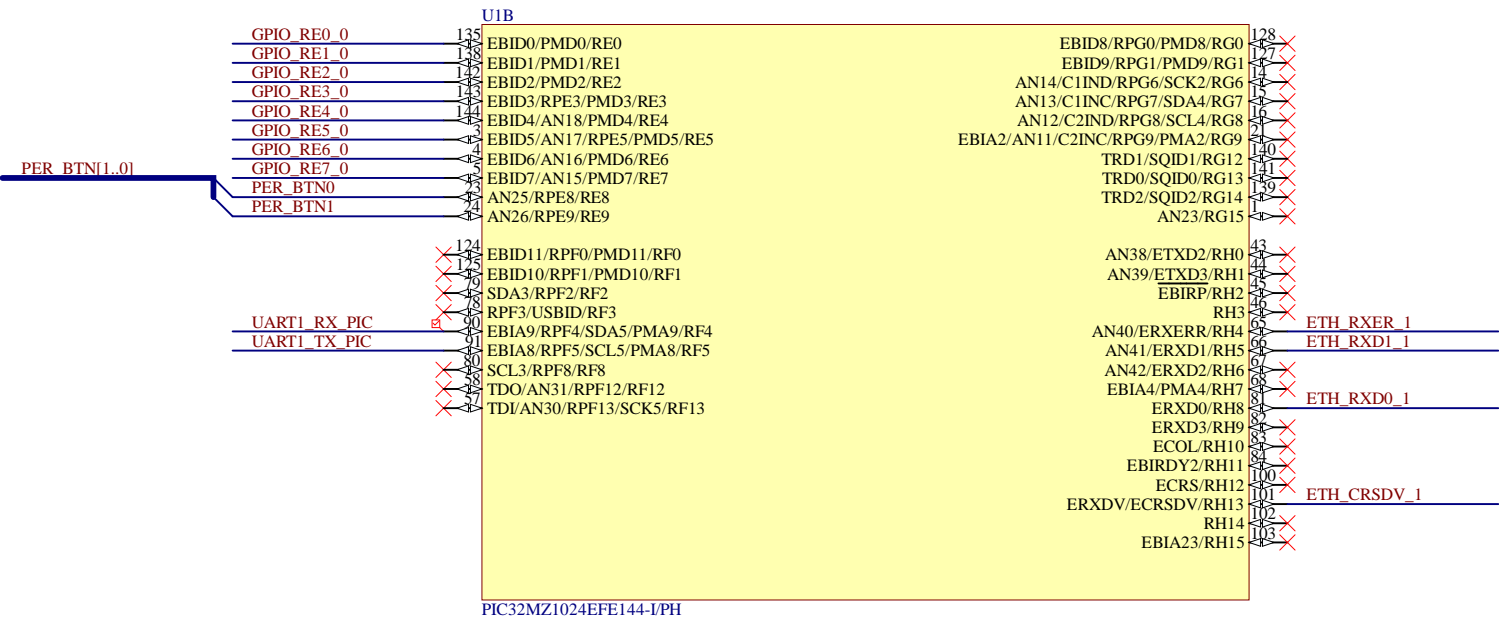
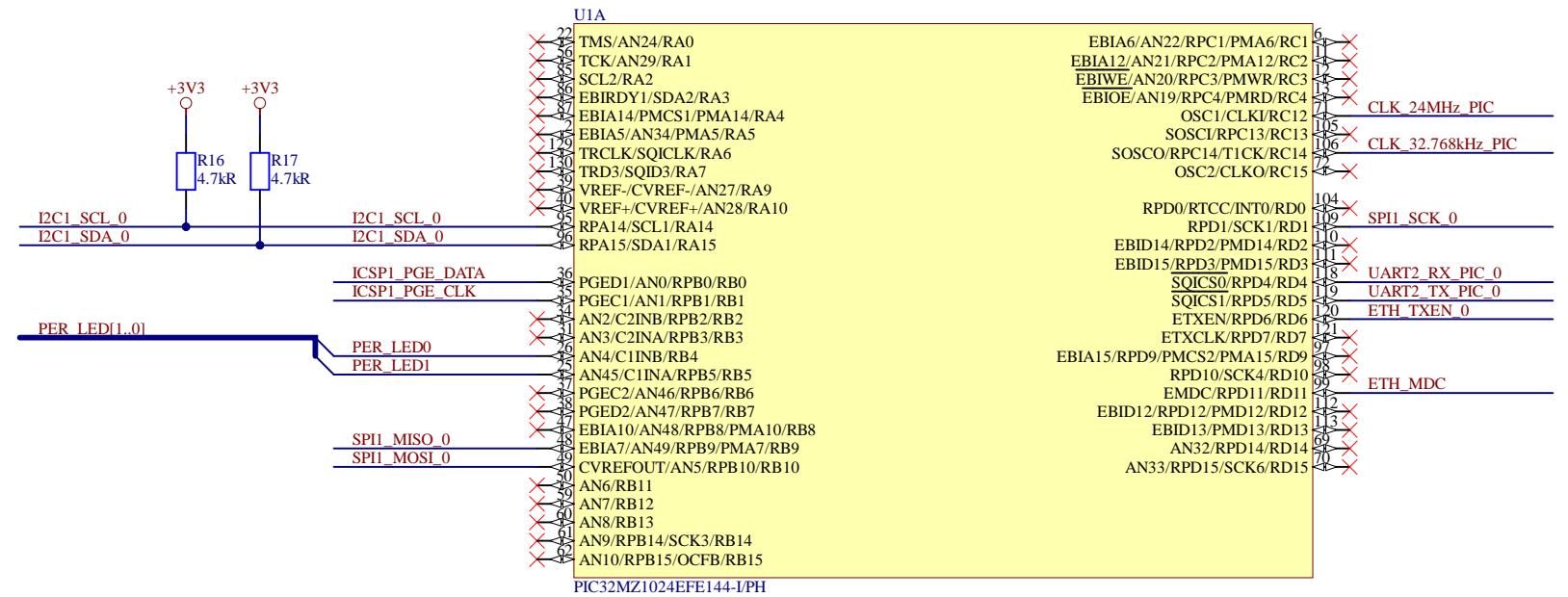
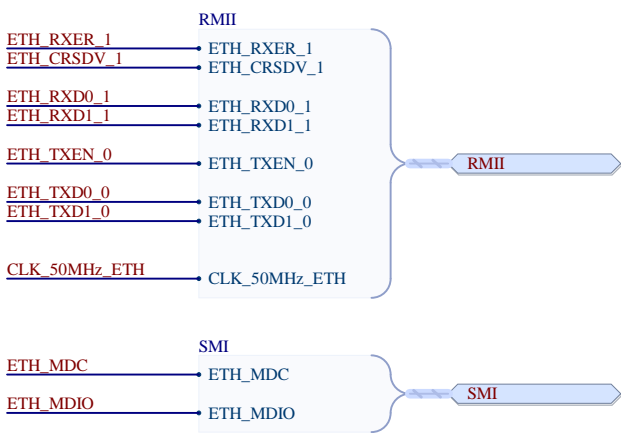
NOTE
I2C bus which will be connected to the header

NOTE
UART bus which will be connected to the header. UART2_PIC_TX is coming from the PIC microcontroller and UART2_PIC_RX is going to it

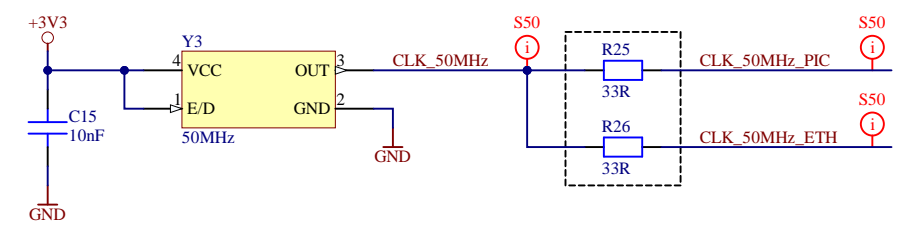
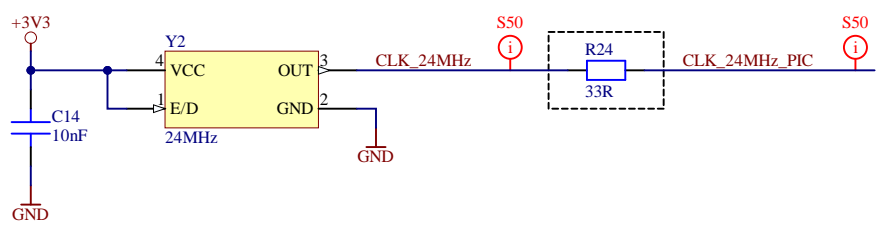
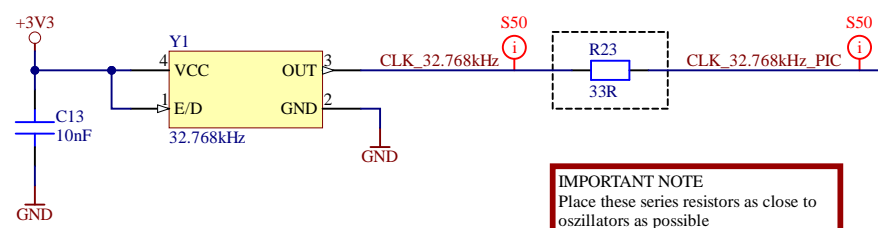
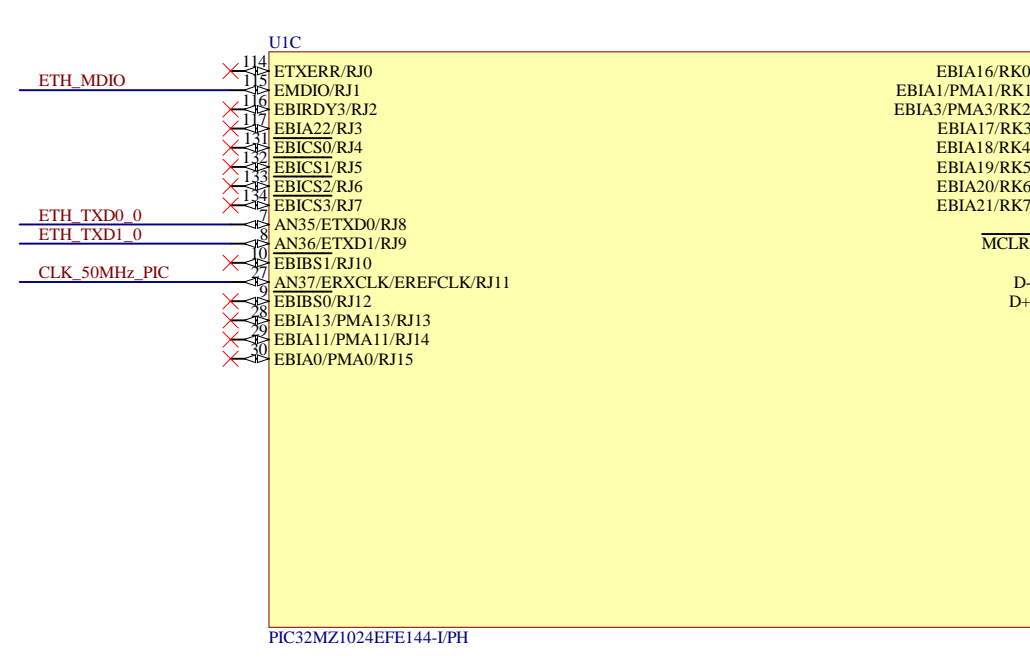
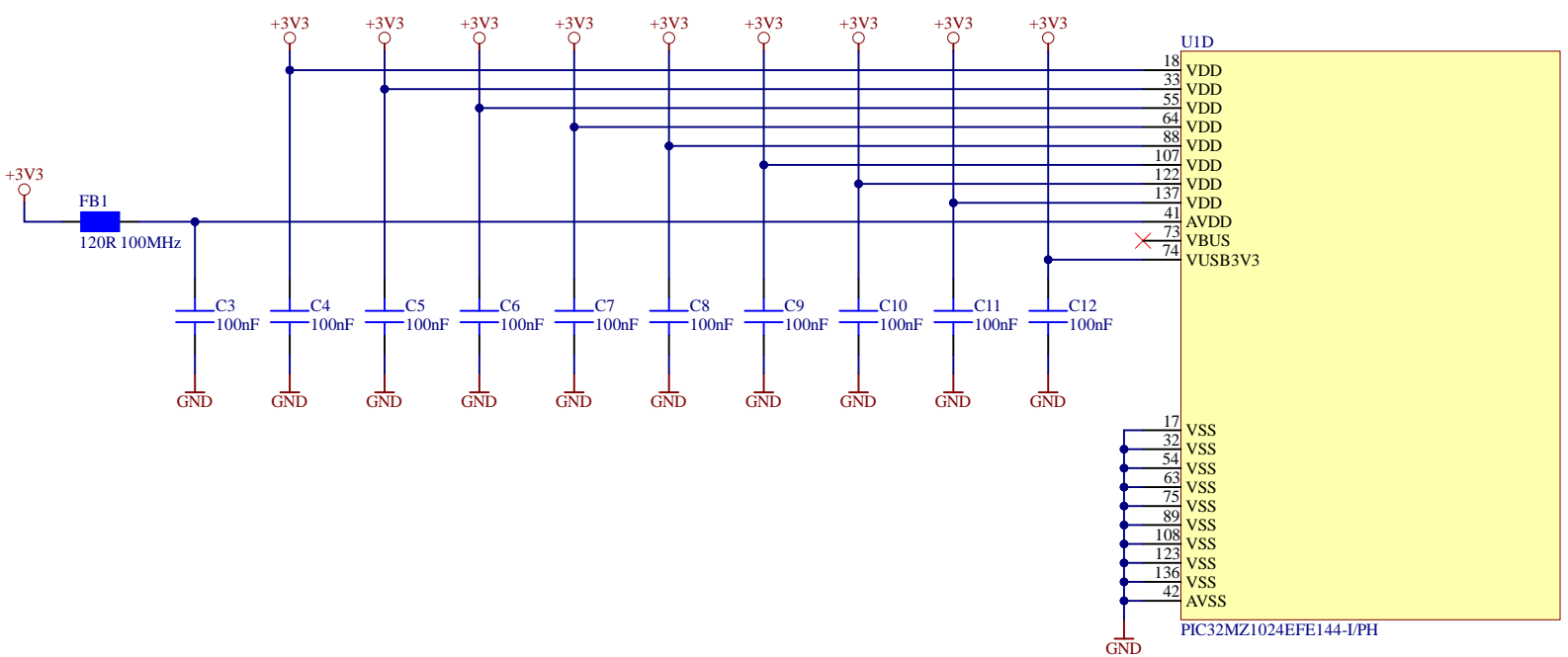
NOTE
GPIO pins which will be connected to the header

NOTE
RMII between the PIC microcontroller and the ethernet transceiver. TXD signals come from the PIC and RXD ones go to the PIC

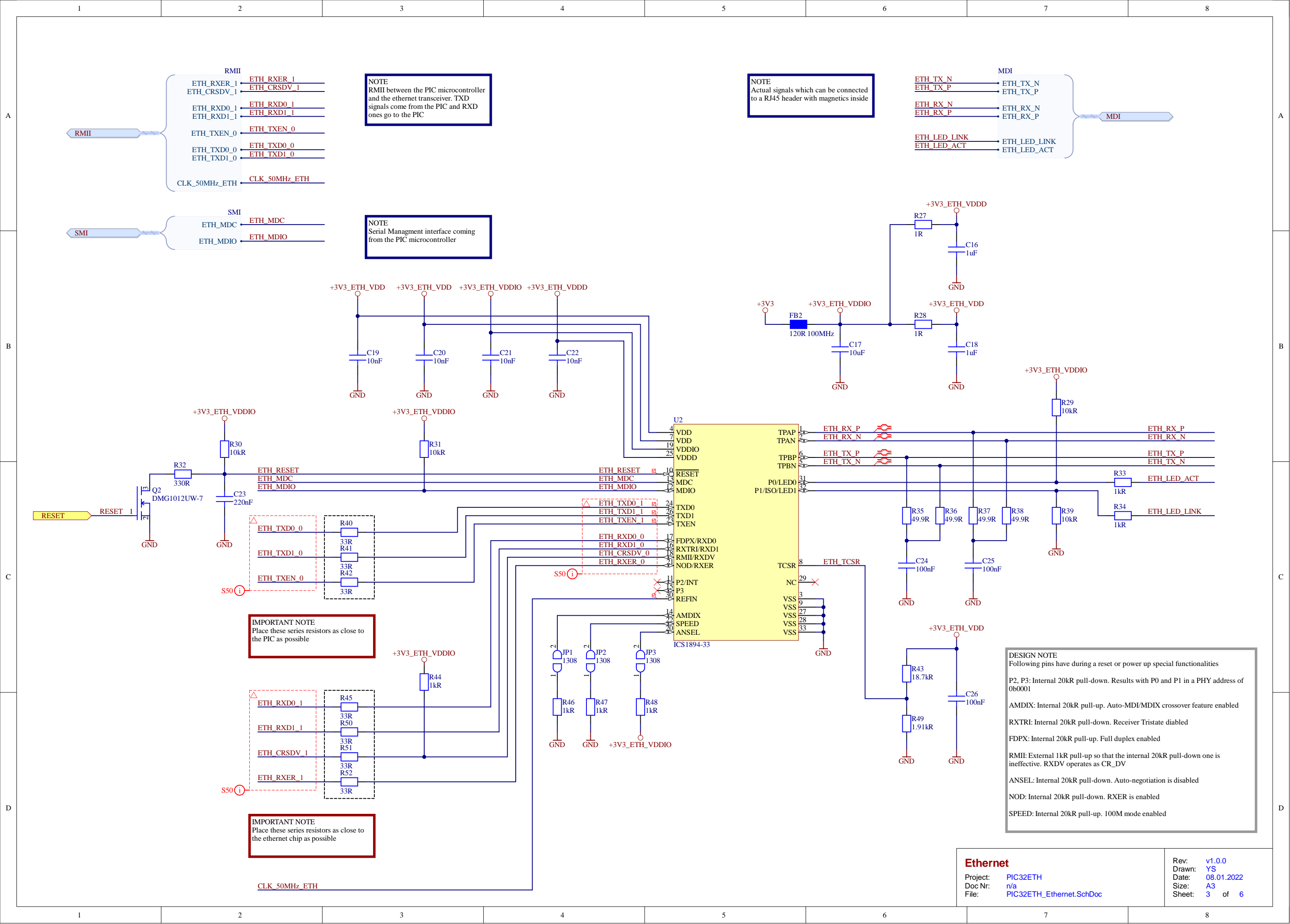
NOTE
Serial Management interface coming from the PIC microcontroller

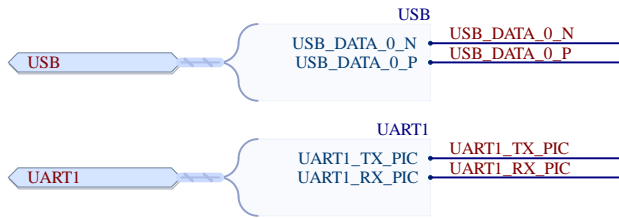


NOTE
Hardware reset signal for every IC



IMPORTANT NOTE
Place these series resistors as close to oscillators as possible

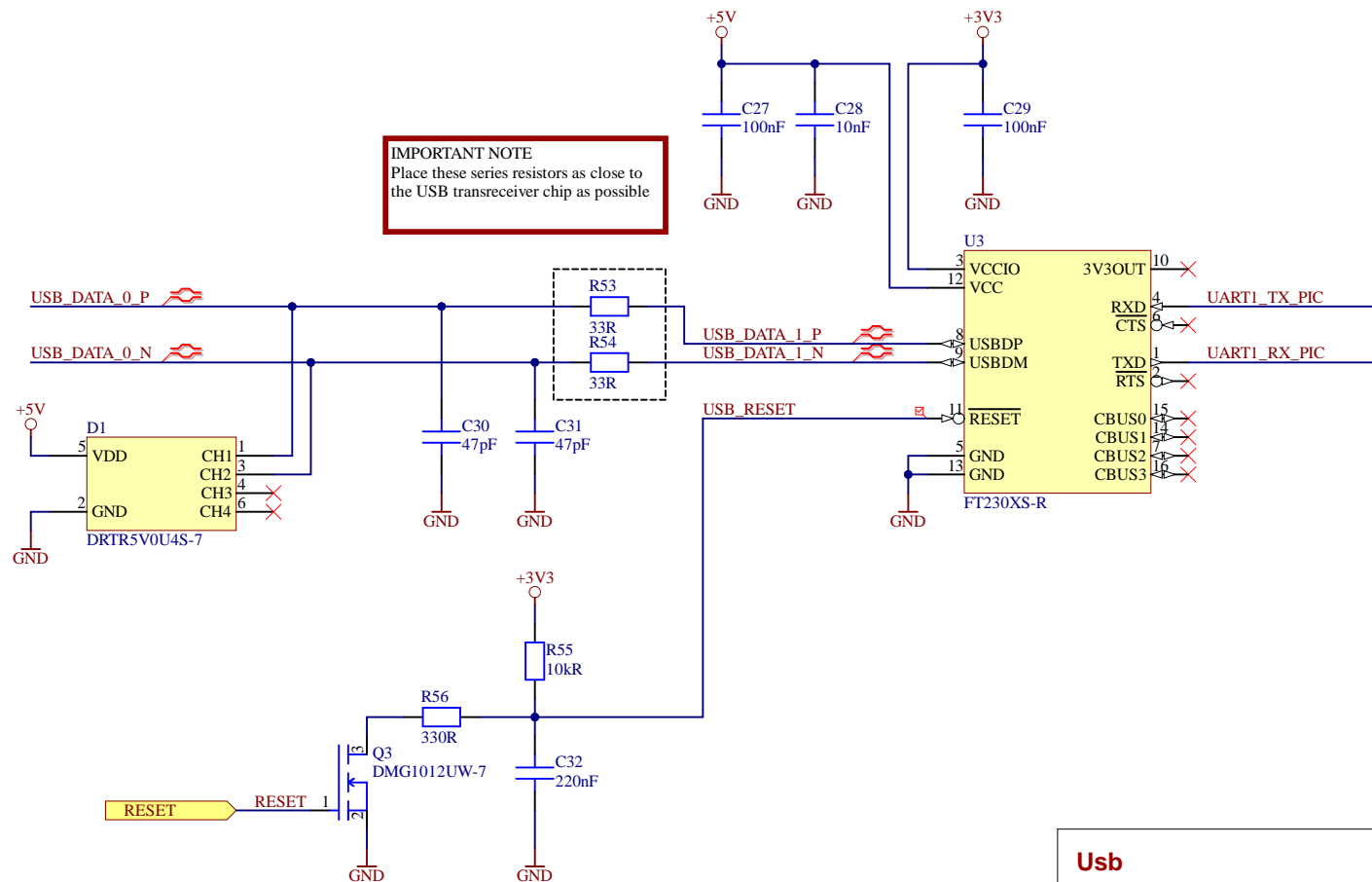




NOTE
USB data signals coming from the USB port

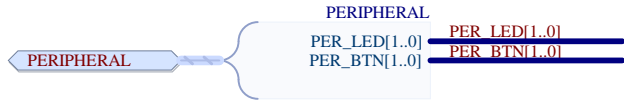
NOTE
UART_PIC_TX is coming from the PIC microcontroller and UART_PIC_RX is going to it

IMPORTANT NOTE
Place these series resistors as close to the USB transceiver chip as possible

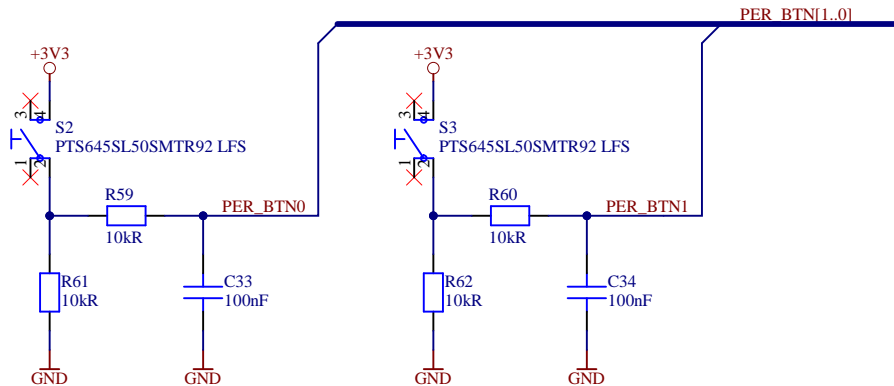
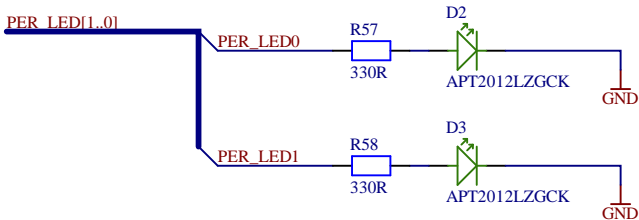


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Doc Nr: n/a
File: PIC32ETH_Usb.SchDoc

Rev: v1.0.0
Drawn: YS
Date: 08.01.2022
Size: A4
Sheet: 4 of 6



NOTE
Simple in and output signals that can be
used for development



Peripheral

Project: PIC32ETH
Doc Nr: n/a
File: PIC32ETH_Peripheral.SchDoc

Rev: v1.0.0
Drawn: YS
Date: 08.01.2022
Size: A4
Sheet: 5 of 6

A

B

C

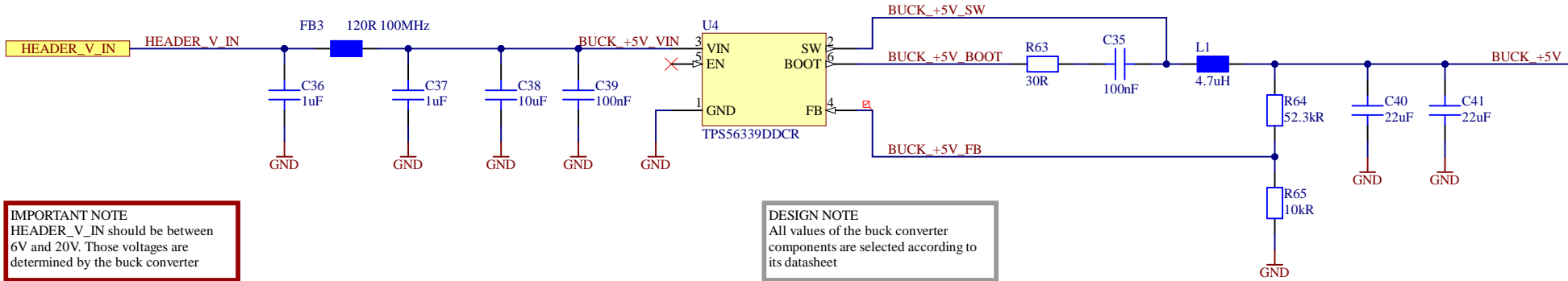
D

A

B

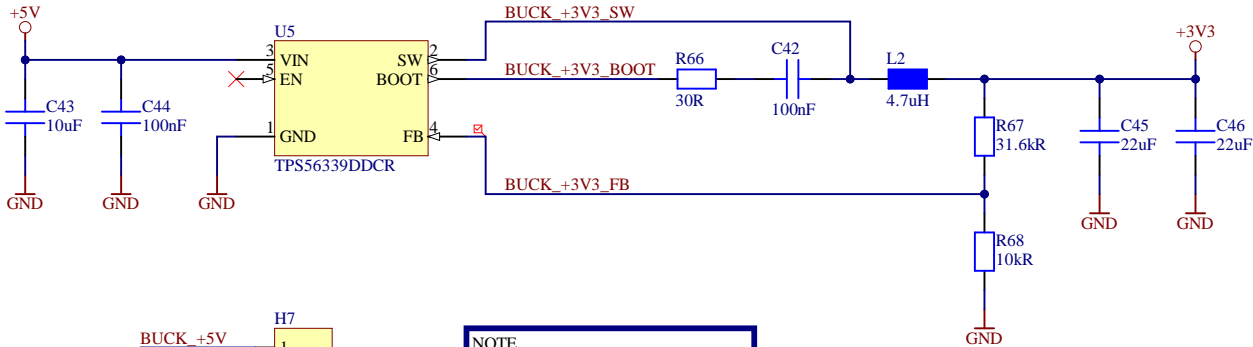
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D



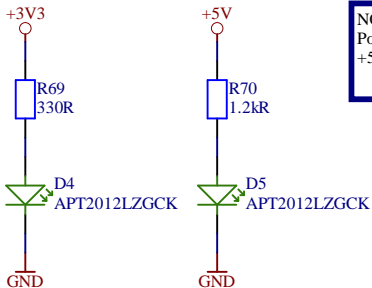
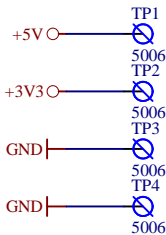
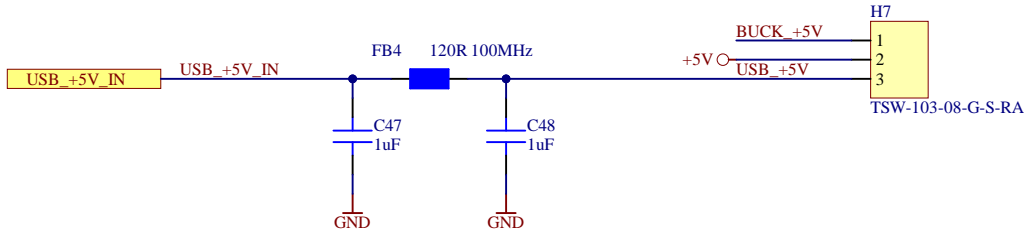
IMPORTANT NOTE
HEADER_V_IN should be between 6V and 20V. Those voltages are determined by the buck converter

DESIGN NOTE
All values of the buck converter components are selected according to its datasheet



NOTE
By setting this jumper the board can either be powered by an external power supply or by the USB port

NOTE
Power indication LEDs for +3V3 and +5V rail



Power		Rev: v1.0.0
Project:	PIC32ETH	Drawn: YS
Doc Nr:	n/a	Date: 08.01.2022
File:	PIC32ETH_Power.SchDoc	Size: A4
		Sheet: 6 of 6