

5.0V

C106

1uF

GND

IC102

VIN

VOUT

GND

EN

BP

RT9193-33GB

TP2

LDO\_3V3

5

4

C105

22nF

C104

1uF

GND

R105

0E

3.3V

R104

4.7K

LED102

RED

GND

Remove to connect Ammeter for current testing

Application:  
> Always ON 3.3V power supply for the MCU and other ICs

TP6

5004

GND

TP7

5004

GND

3.3V Regulation for MCU

5.0V

C103

1uF

GND

IC101

VIN

VOUT

GND

EN

BP

RT9193-33GB

TP1

5

4

C102

22nF

C101

1uF

GND

R103

0E

3V3\_SEN

R102

4.7K

LED101

RED

GND

R101

100K

PB8-SENSORPWR-ENABLE/3.2C

GND

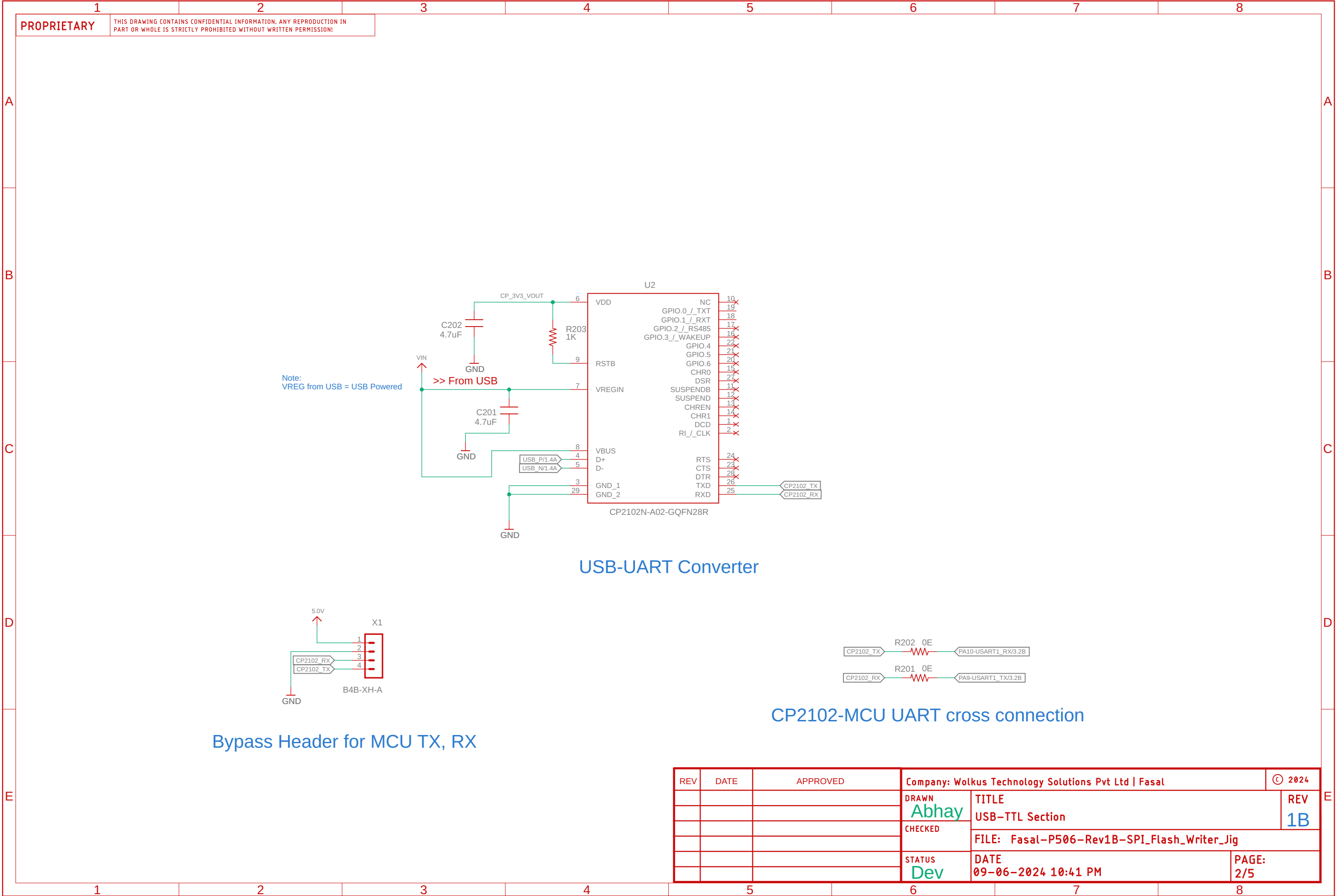
Remove to connect Ammeter for current testing

Note:  
> 4.0V is the raw power from Li-ion battery after the fuse and power switch.  
> 3V3\_SEN is the voltage for sensors  
> To extend sensor life, we will turn on the sensors only at the time of sensor reading  
> LDO max dropout: 0.22V @ 300mA  
> LDO EN pulled LOW to keep it OFF. Drive MCU GPIO High (EN = HIGH) to enable the LDO

Application:  
> EN Control based 3.3V power supply for external peripherals

3.3V Regulation for Sensors With EN control

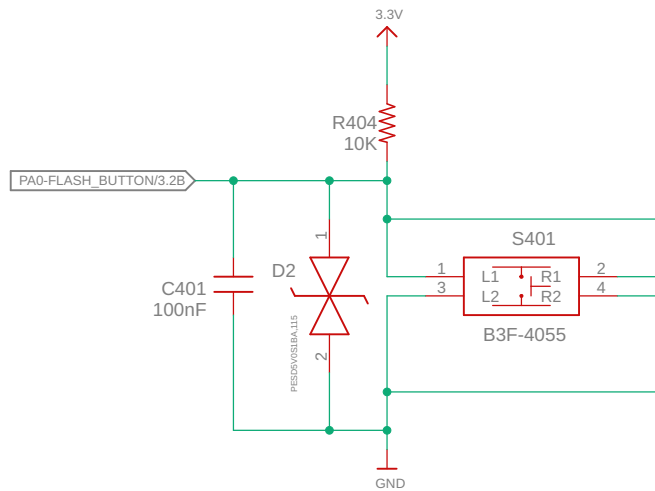
REV	DATE	APPROVED	Company: Wolkus Technology Solutions Pvt Ltd   Fasal		© 2023
			DRAWN Abhay	TITLE Power Supply Section – Control & Regulation	REV 1B
			CHECKED	FILE: Fasal-P506-Rev1B-SPI_Flash_Writer_Jig	
			STATUS Dev	DATE 09-06-2024 10:41 PM	PAGE: 1/5





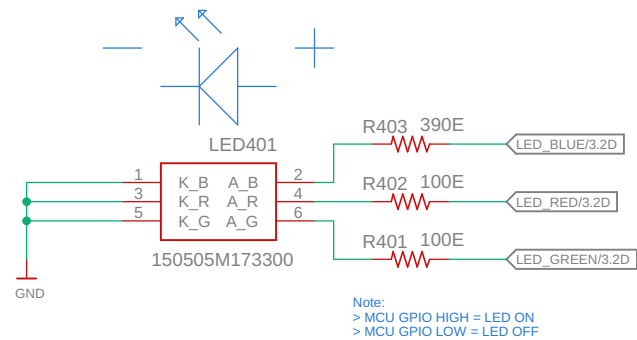
PROPRIETARY

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User Button

Note:  
> can be used to trigger FLASH writing activity



Note:  
> MCU GPIO HIGH = LED ON  
> MCU GPIO LOW = LED OFF

Resistor Calculations

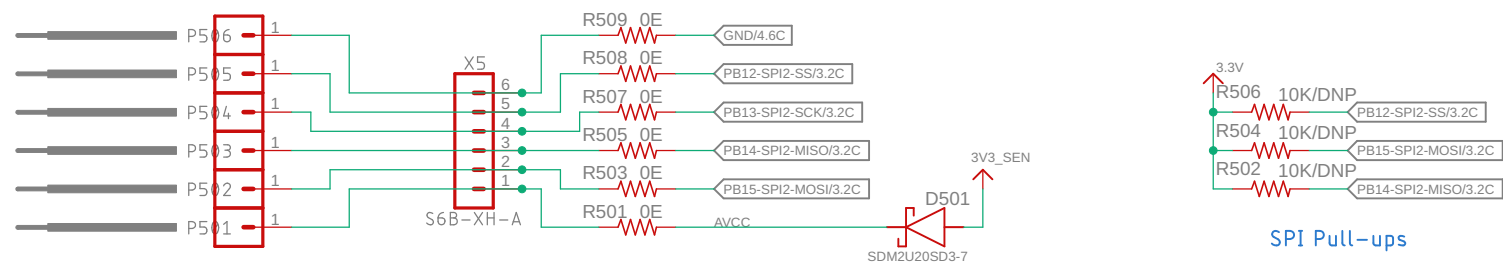
\*\*\*\*\*

$R = (VDD - Vf) / If$

Rred =  $(3.3 - 2.1) / 10mA = 120R$   
Green =  $(3.3 - 2.9) / 10mA = 40R$   
Blue =  $(3.3 - 2.9) / 10mA = 40R$

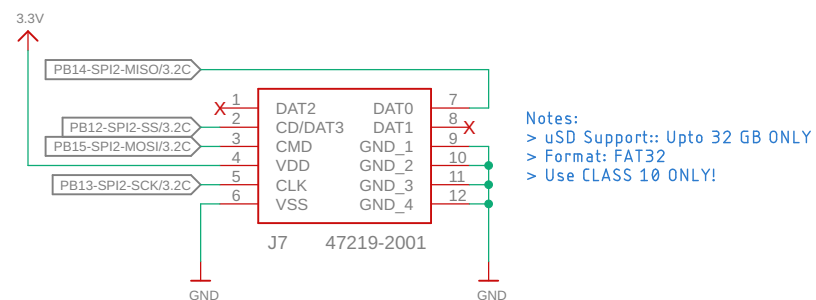
Doubling above (for safety)  
Rred = 220R  
Rgreen = 100R  
Rblue = 100R

REV	DATE	APPROVED	Company: Wolkus Technology Solutions Pvt Ltd   Fasal		© 2023
			DRAWN Abhay	TITLE User Button & LED	REV 1B
			CHECKED	FILE: Fasal-P506-Rev1B-SPI_Flash_Writer_Jig	
			STATUS Dev	DATE 09-06-2024 10:41 PM	PAGE: 4/5



## SPI2 Test Points

## External SPI Slave on SPI2



Notes:  
> uSD Support:: Upto 32 GB ONLY  
> Format: FAT32  
> Use CLASS 10 ONLY!

ONLY FOR TESTING.  
Will not be used in Production.

## Optional Micro SD Card Holder on SPI2

REV	DATE	APPROVED	Company: Wolkus Technology Solutions Pvt Ltd   Fasal		© 2023
			DRAWN Abhay	TITLE External SPI Slave	REV 1B
			CHECKED	FILE: Fasal-P506-Rev1B-SPI_Flash_Writer_Jig	
			STATUS Dev	DATE 09-06-2024 10:41 PM	PAGE: 5/5