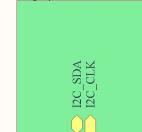


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Block_Diagram.SchDoc

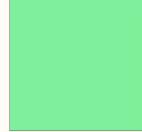


Display.SchDoc



B

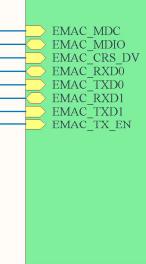
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MCU.SchDoc



Ethernet.SchDoc



C

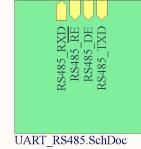
Power_Supply.SchDoc



Interface.SchDoc



UART_RS485.SchDoc



D

Project Name

Bluetooth Gateway  

Size

A3

Revision

V1.0.0

Checked By:

QUOCTHANG

Date: 4/24/2025 Last Modified: 4/18/2025

Drawn By: DONGKHOA Sheet 1 of 10

File: Overview_Schematic.SchDoc

A

A

**ROTARY
ENCODER**

**USER
BUTTON**

**RS485
MAX3485**

ESP32-WROVER-IE

LAN8720A

HD44780

Parallel

LCD1602

GPIO *GPIO*

UART

RJ45

I²C

ETHERNET

B

B

C

C

D

D

Project Name Bluetooth Gateway  		
Size A4	Revision V1.0.0	Checked By: QUOCTHANG
Date: 4/24/2025	Last Modified: 4/23/2025	
Drawn By: DONGKHOA		Sheet 2 of 10
File: Block_Diagram.SchDoc		

A

A

B

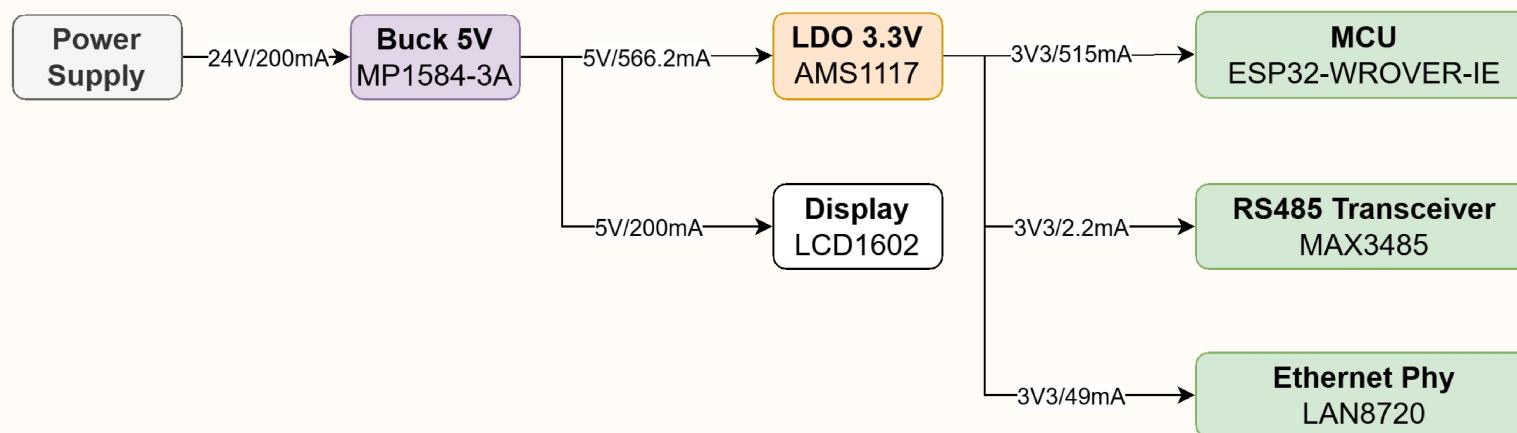
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C

D

D



Project Name Bluetooth Gateway 		
Size A4	Revision V1.0.0	Checked By: QUOCTHANG
Date: 4/24/2025	Last Modified: 4/18/2025	
Drawn By: DONGKHOA		Sheet 3 of 10
File: Power_Diagram.SchDoc		

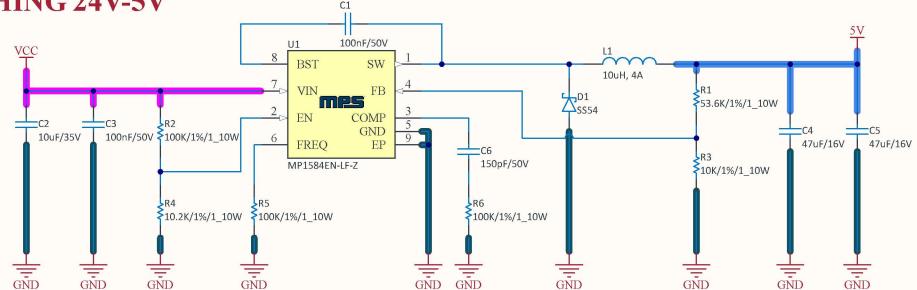
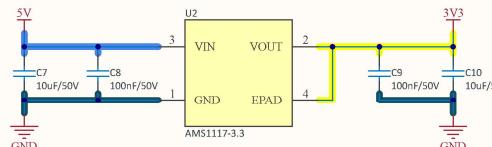
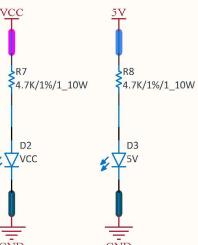
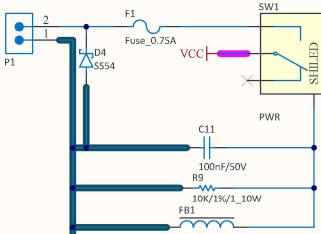
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004	Index
005	Power_Supply
006	MCU
007	ETHERNET
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Bluetooth Gateway Schematic V1.0.0

Project Name		
Bluetooth Gateway 		
Size	Revision	Checked By:
A4	V1.0.0	QUOCTHANG
Date: 4/24/2025	Last Modified: 4/18/2025	
Drawn By: DONGKHOA		Sheet 4 of 10
File: Index.SchDoc		

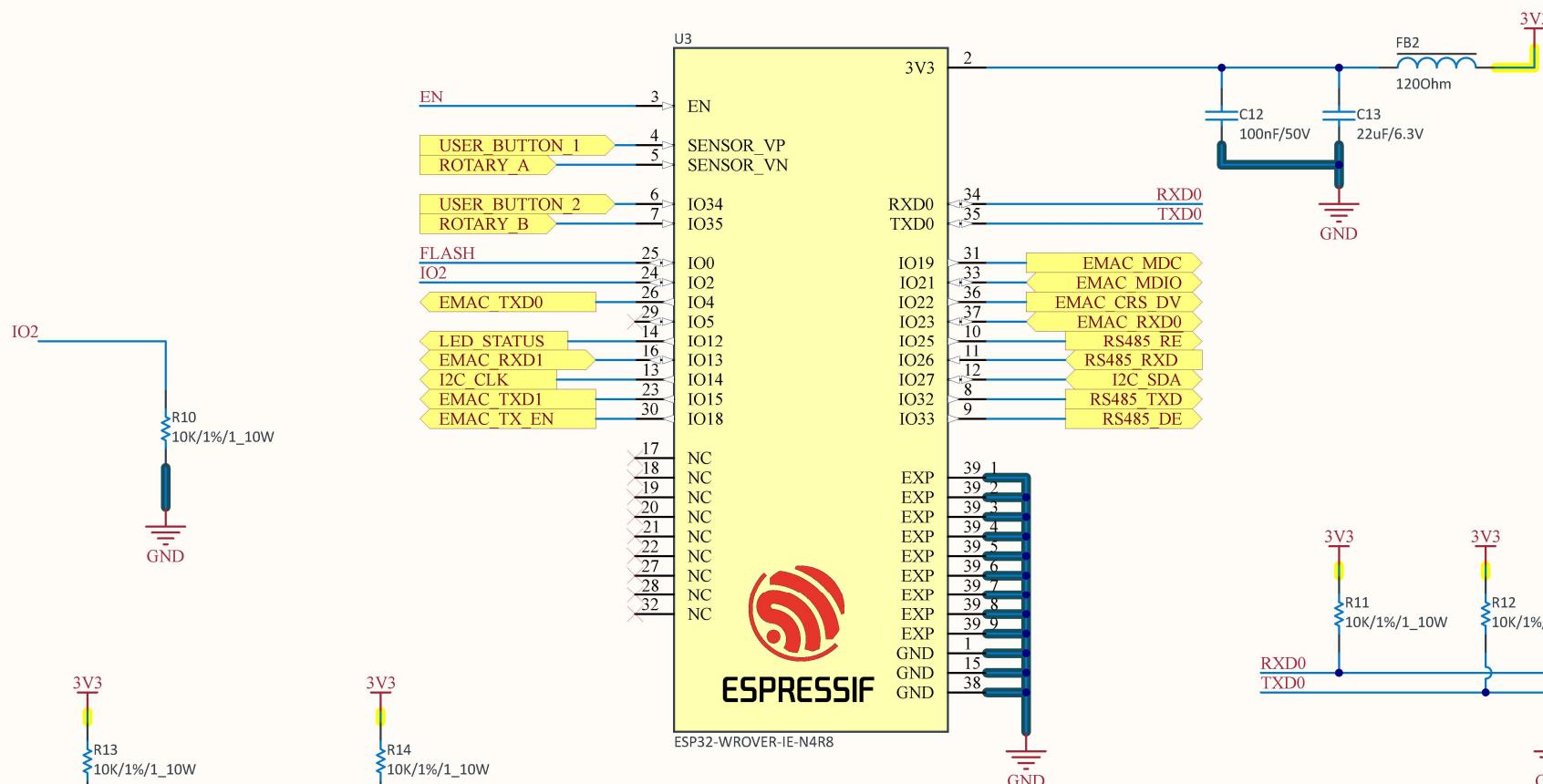
1 2 3 4 5 6 7 8

SWITCHING 24V-5V**LDO 5V-3V3****POWER: LED & TESTPOINT****SWITCH POWER****OTHERS**

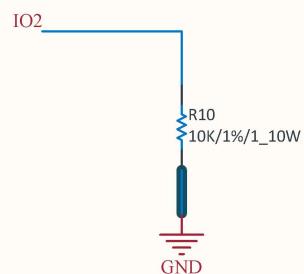
Project Name Bluetooth Gateway		
Size A3	Revision V1.0.0	Checked By: QUOCTHANG
Date: 4/24/2025	Last Modified: 4/18/2025	
Drawn By: DONGKHOA	Sheet 5 of 10	
File: Power_Supply.SchDoc		

1 2 3 4 5 6 7 8

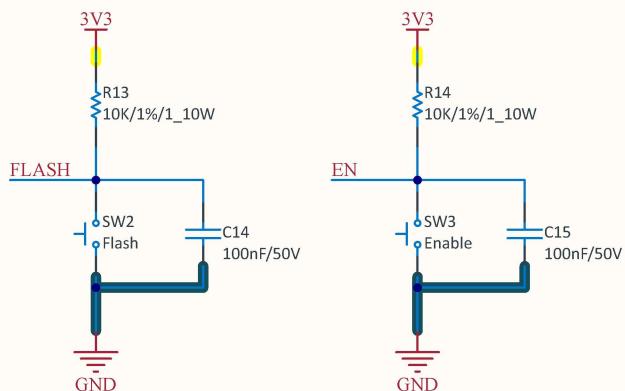
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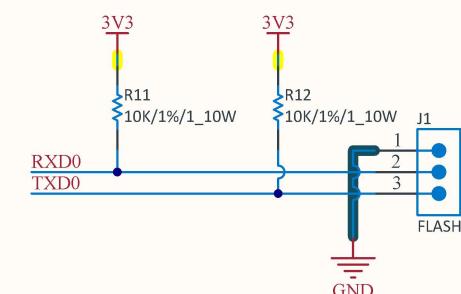
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C



D



Project Name

Bluetooth Gateway

Size
A4Revision
V1.0.0Checked By:
QUOCTHANG

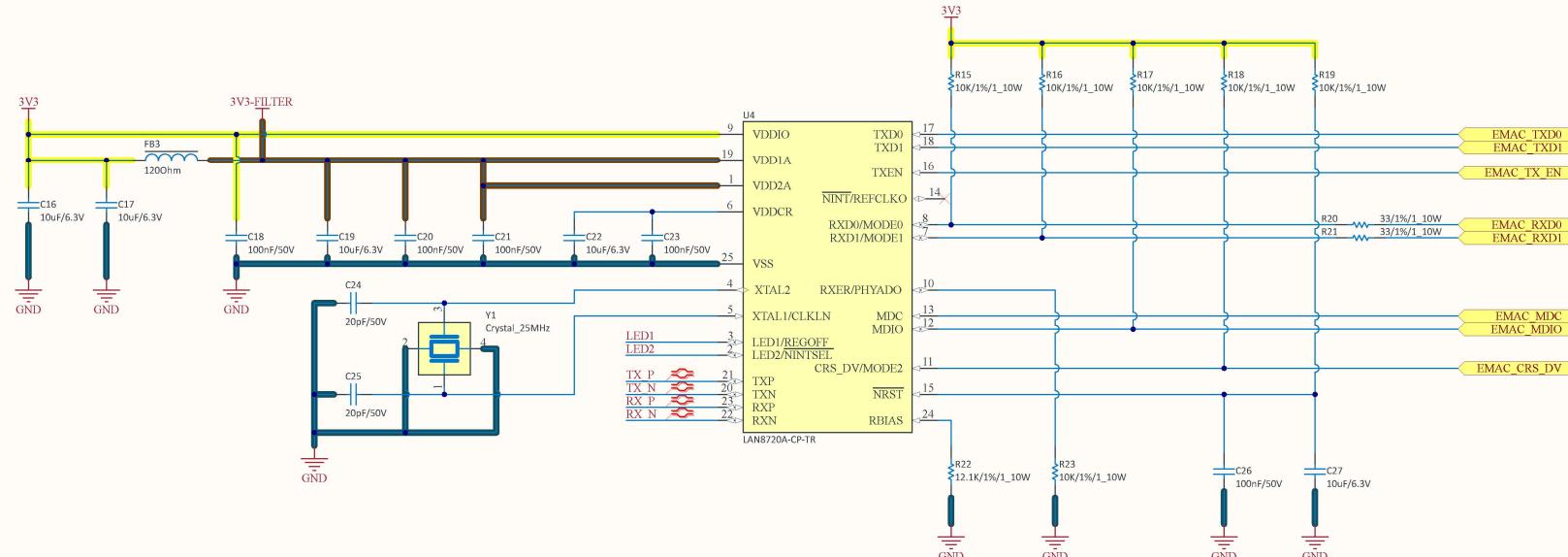
Date: 4/24/2025 Last Modified: 4/19/2025

Drawn By: DONGKHOA

Sheet 6 of 10

File: MCU.SchDoc

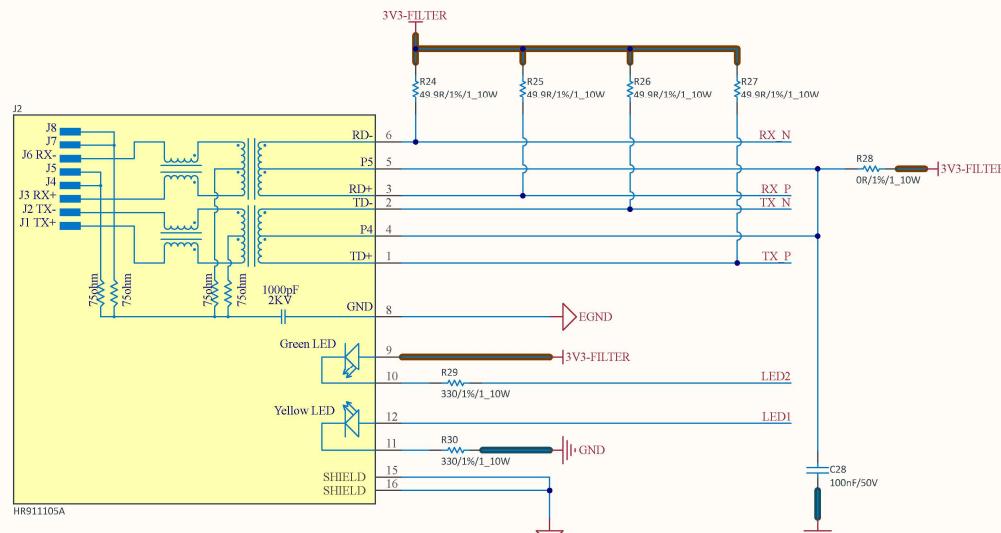
A



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HR911105A

EGND → R31 → GND

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Date: 4/24/2025	Last Modified: 4/19/2025	
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File: Ethernet SchDoc		

A

A

B

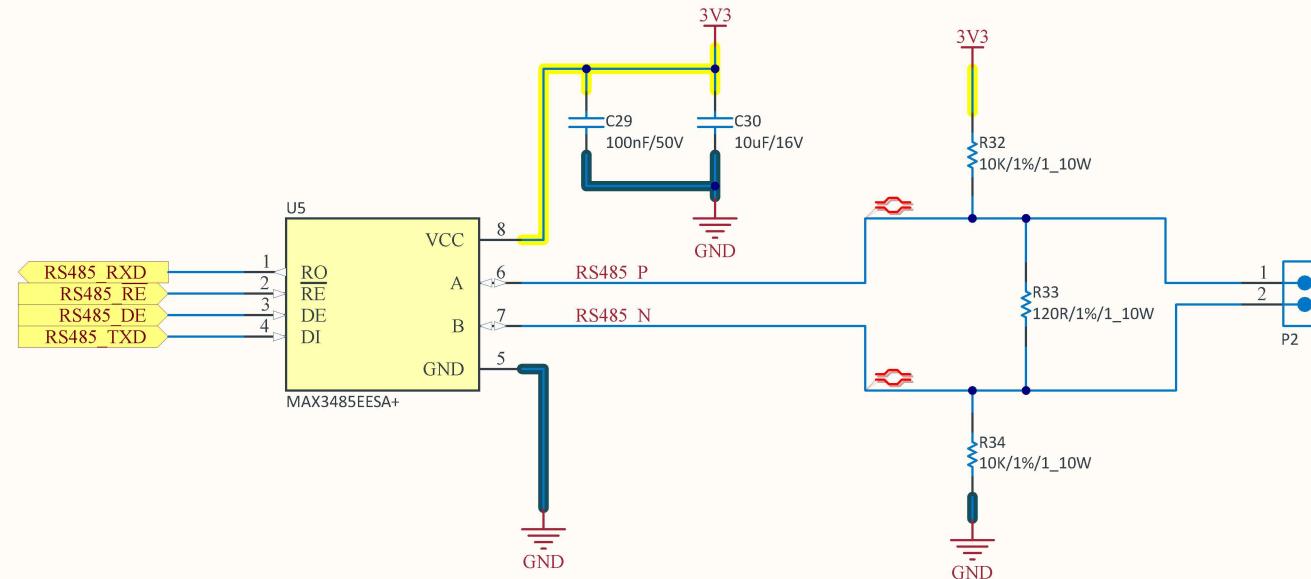
B

C

C

D

D



Project Name

Bluetooth Gateway  

Size

A4

Revision

V1.0.0

Checked By:

QUOCTHANG

Date: 4/24/2025

Last Modified: 4/19/2025

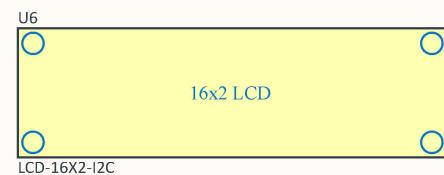
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File: UART_RS485.SchDoc

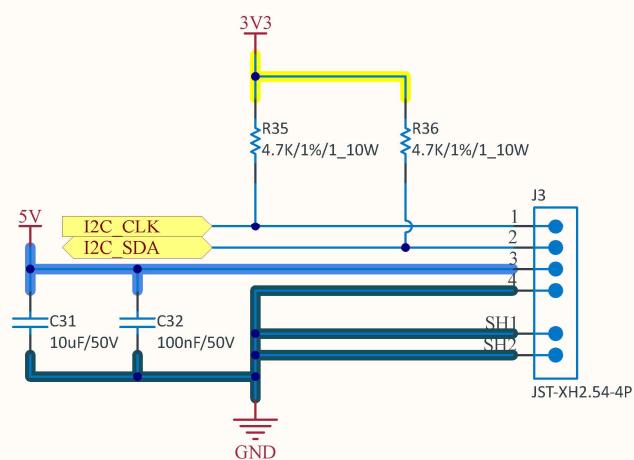
A

A



B

B

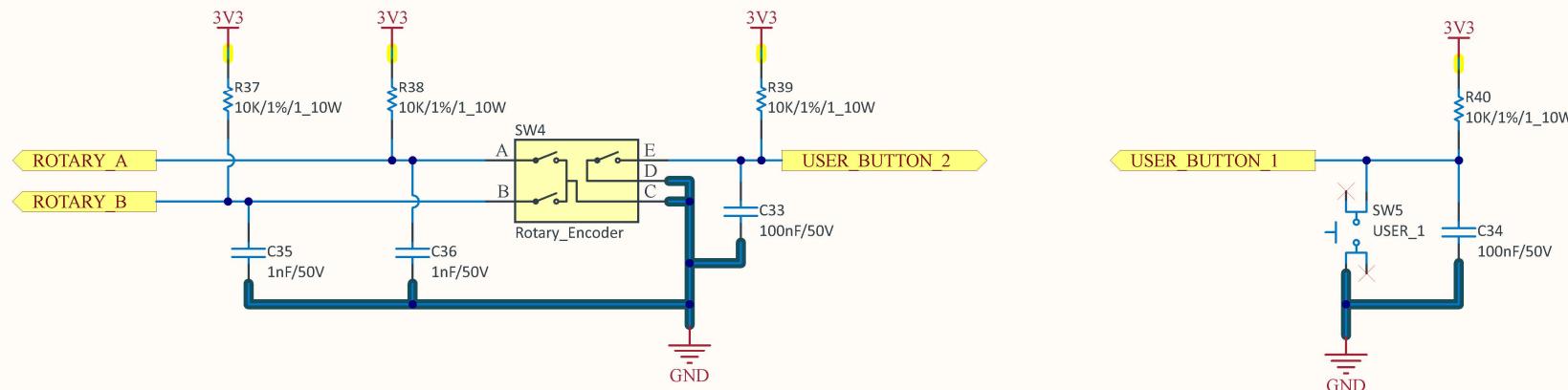


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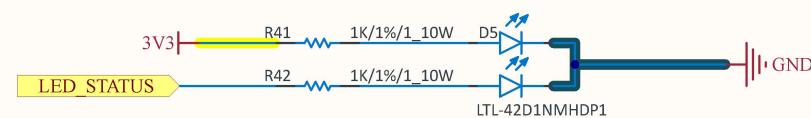
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Date: 4/24/2025	Last Modified: 4/18/2025	
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A



B



C

Project Name Bluetooth Gateway		
Size A4	Revision V1.0.0	Checked By: QUOCTHANG
Date: 4/24/2025	Last Modified: 4/20/2025	
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File: Interface.SchDoc		