

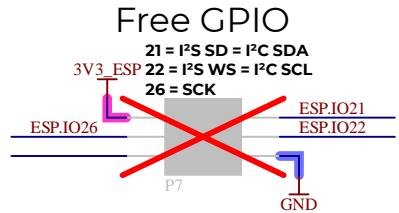
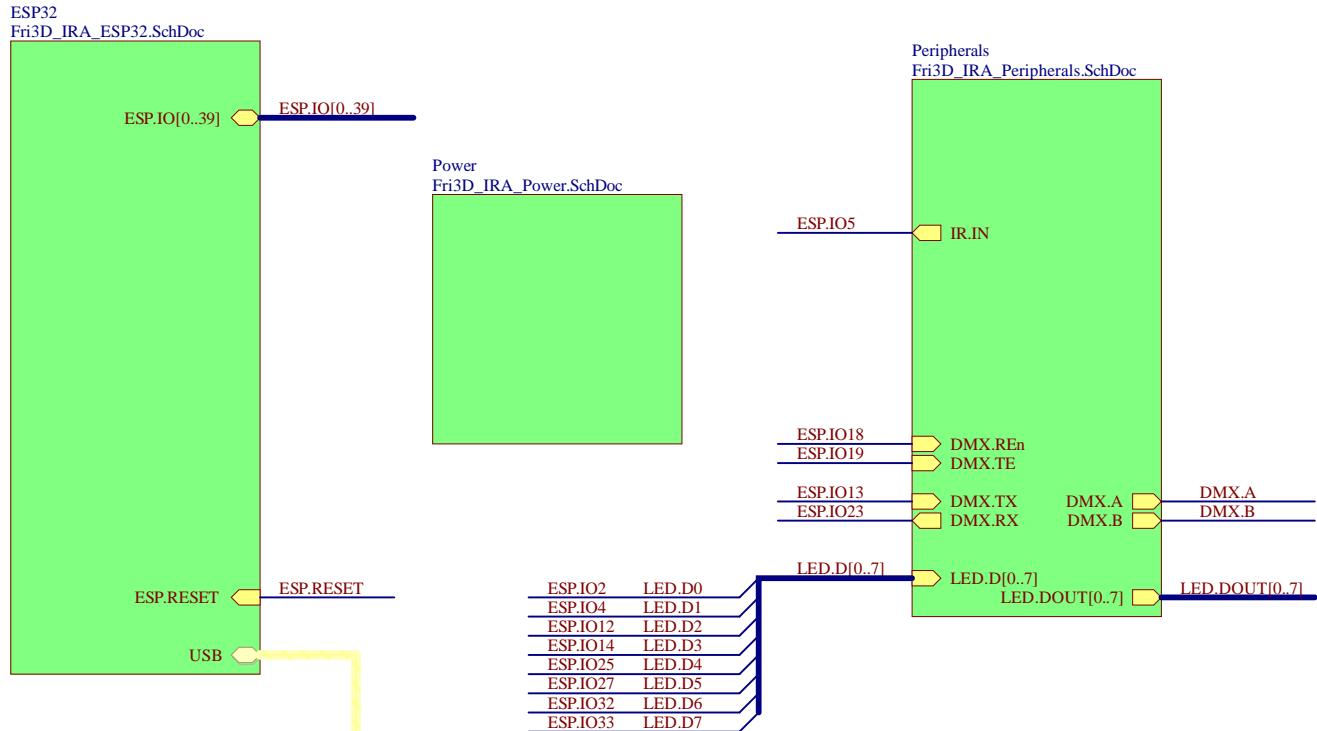
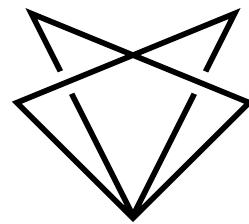
Rev. 00 : Initial release
 Rev. 01 : Bug Fixes
 Rev. 02 : More Outputs!

Variants

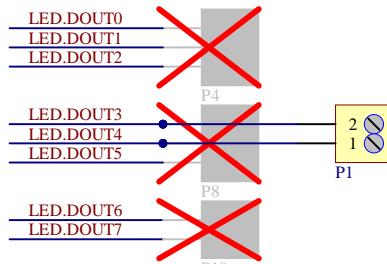
Default: Octal WS2812 buffered outputs, 5V or 12V input
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Fri3D Ira 2022

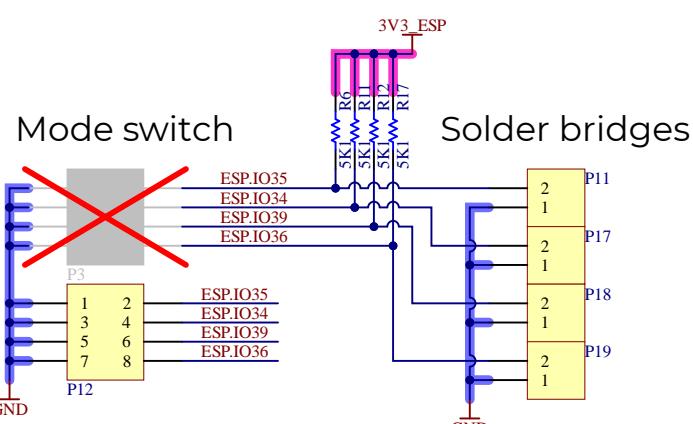
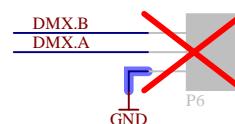
Top Level



Digital LED Strips



RS-485 Transceiver



A

A

B

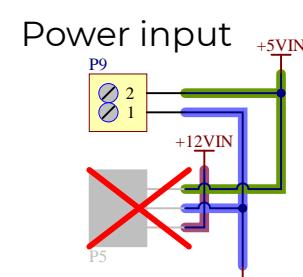
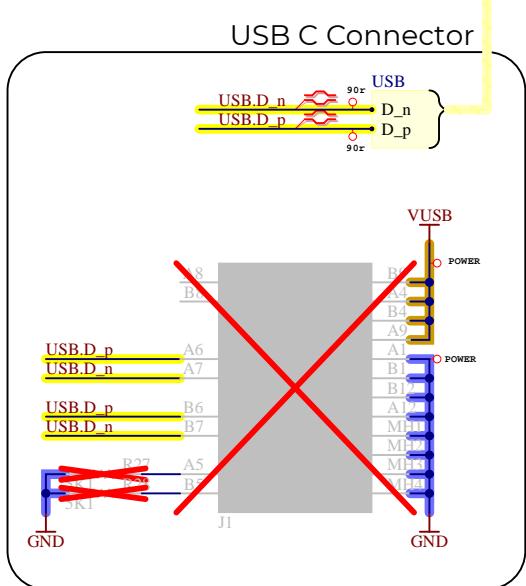
B

C

C

D

D

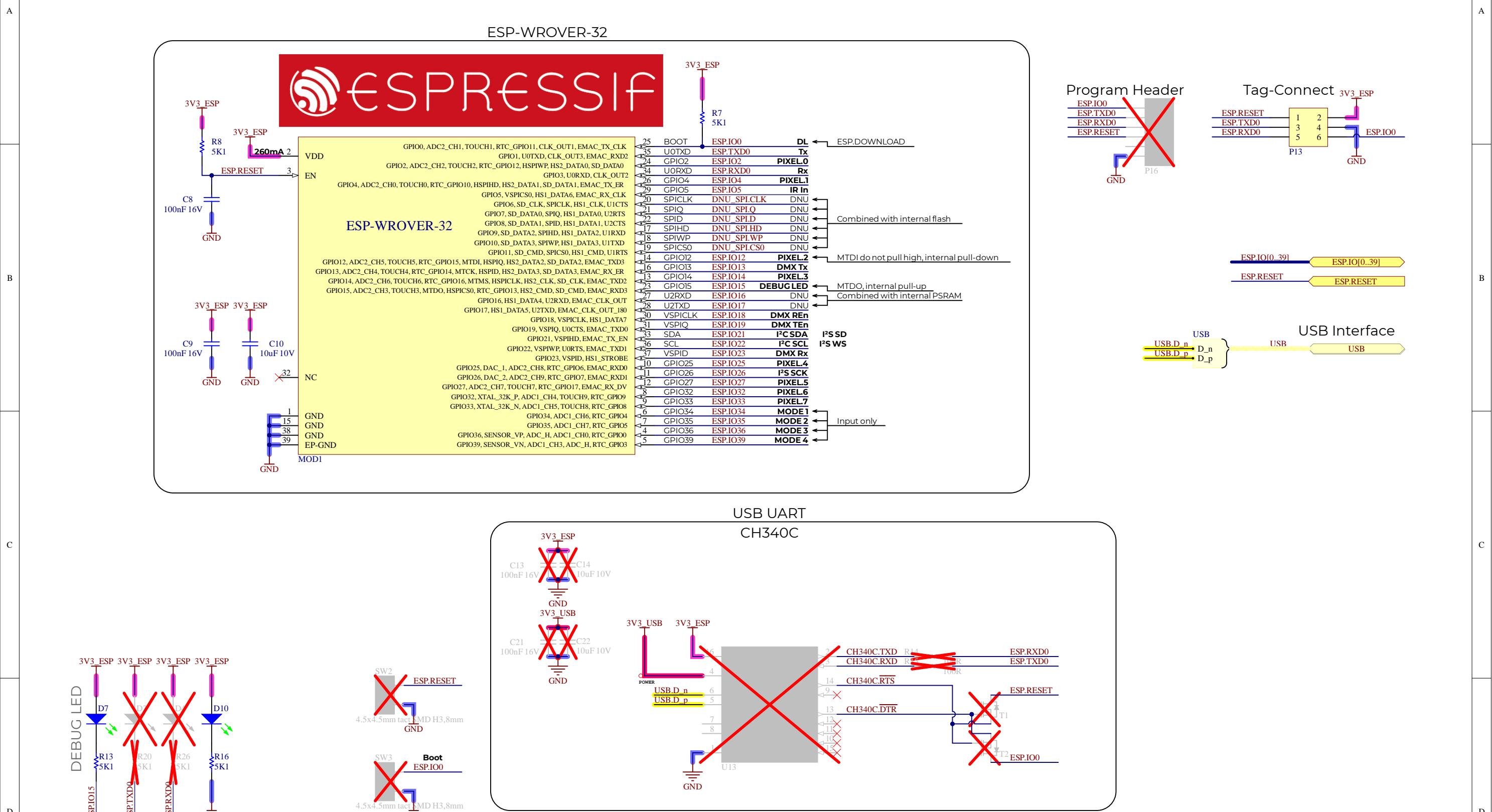


Variant: Minimal
 Housing : HMMFG 1593ARTBU
 Cable Gland : IPG-2227

Phyx		Title
Top Level		
Date	25/03/2024	Size
Revision	02	Drawn By Wim Van Gool
		Sheet 1 of 4

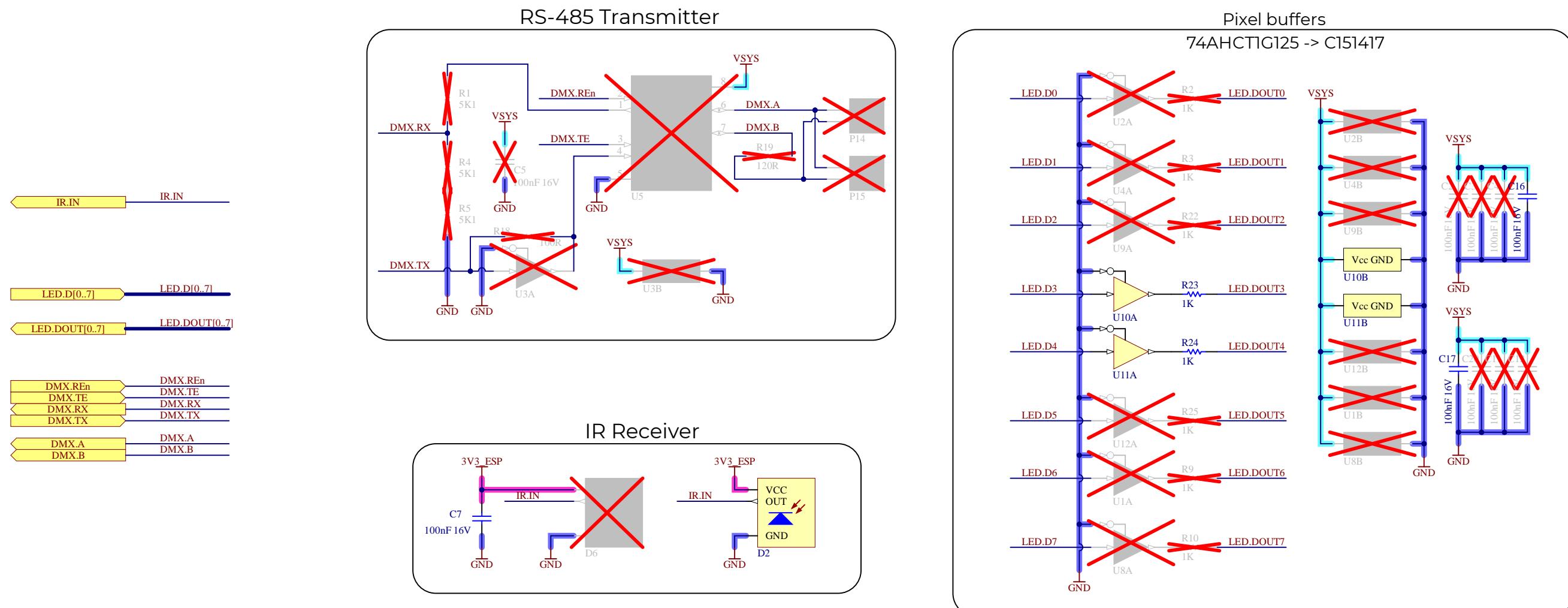
Fri3D Ira 2022

ESP32 Module



Fri3D Ira 2022

Peripherals



Fri3D Ira 2022

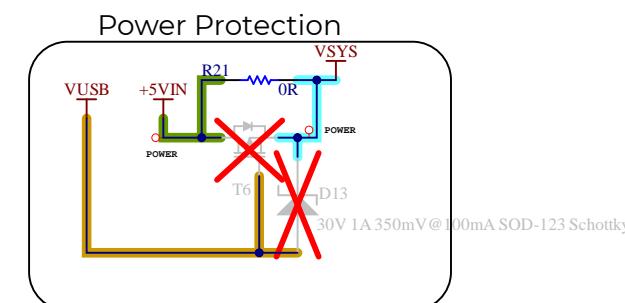
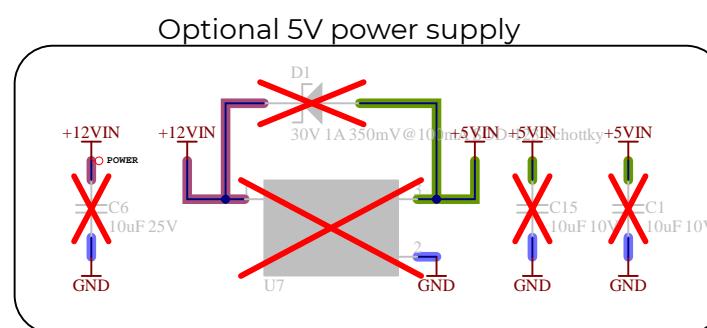
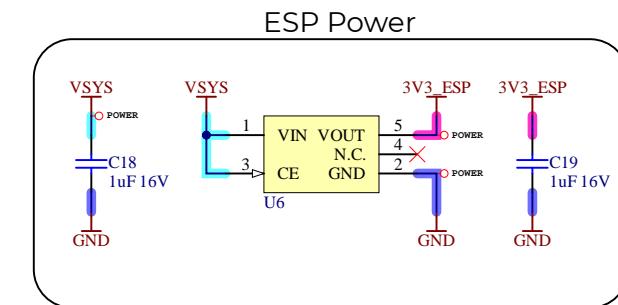
Power

A A

B B

C C

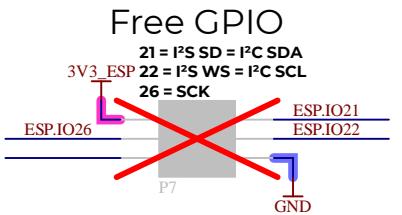
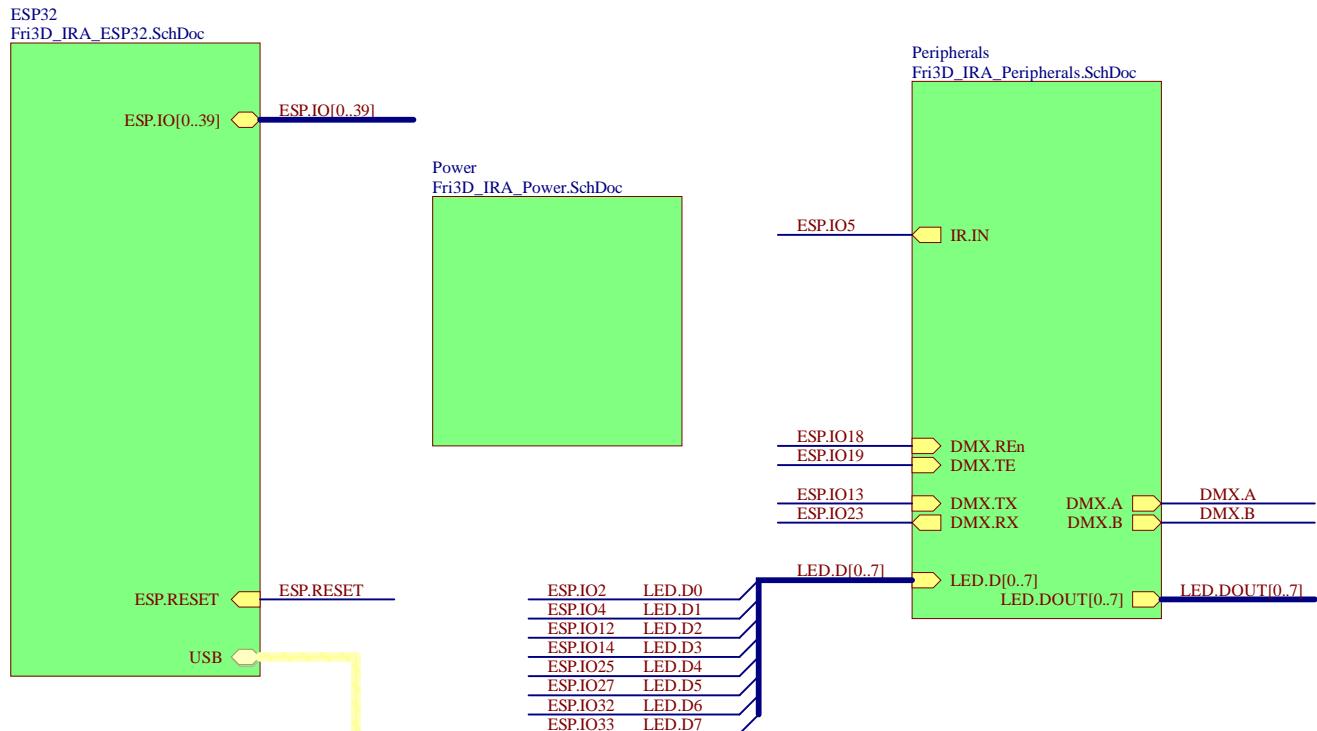
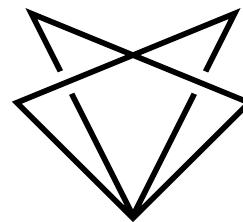
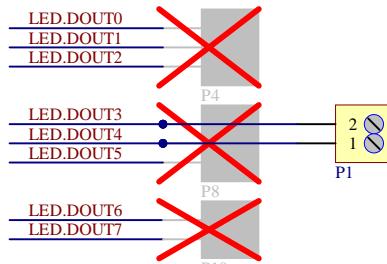
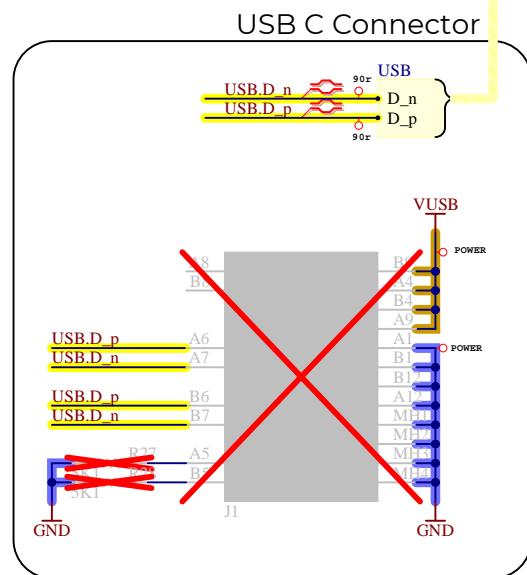
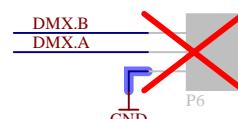
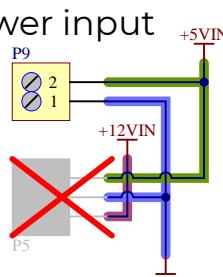
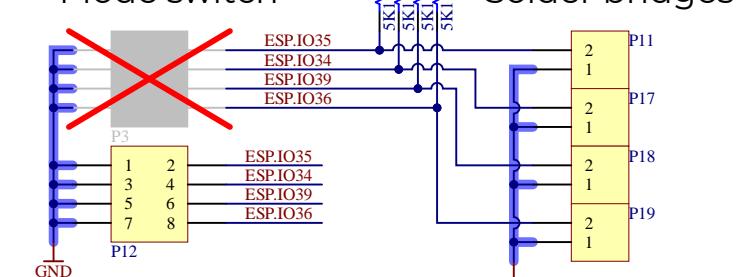
D D



Rev. 00 : Initial release
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Variants

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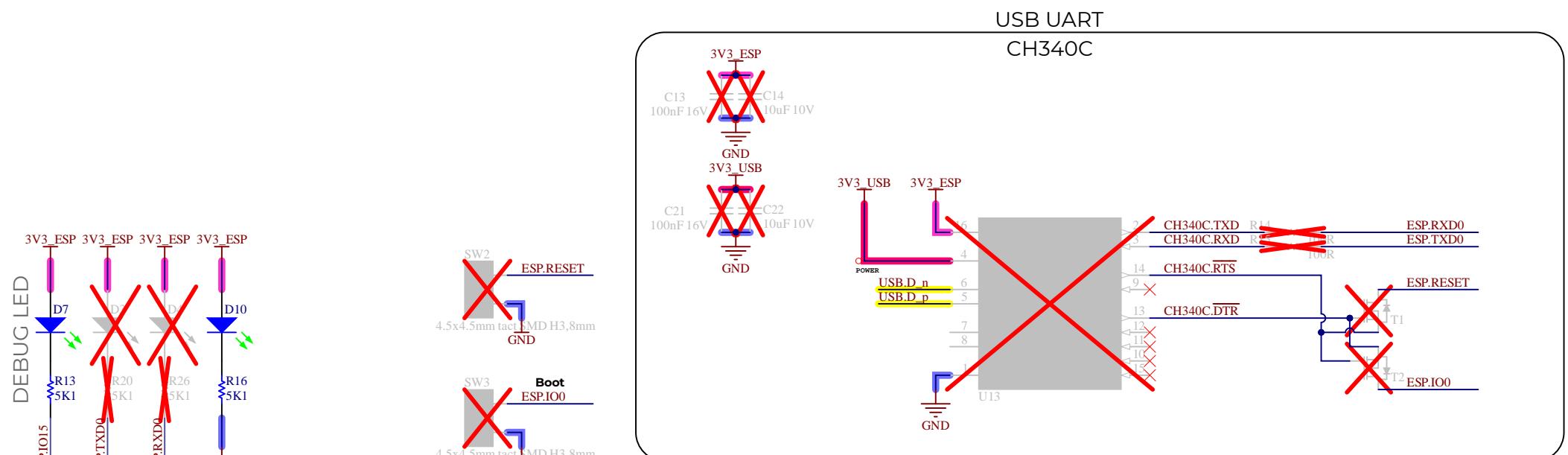
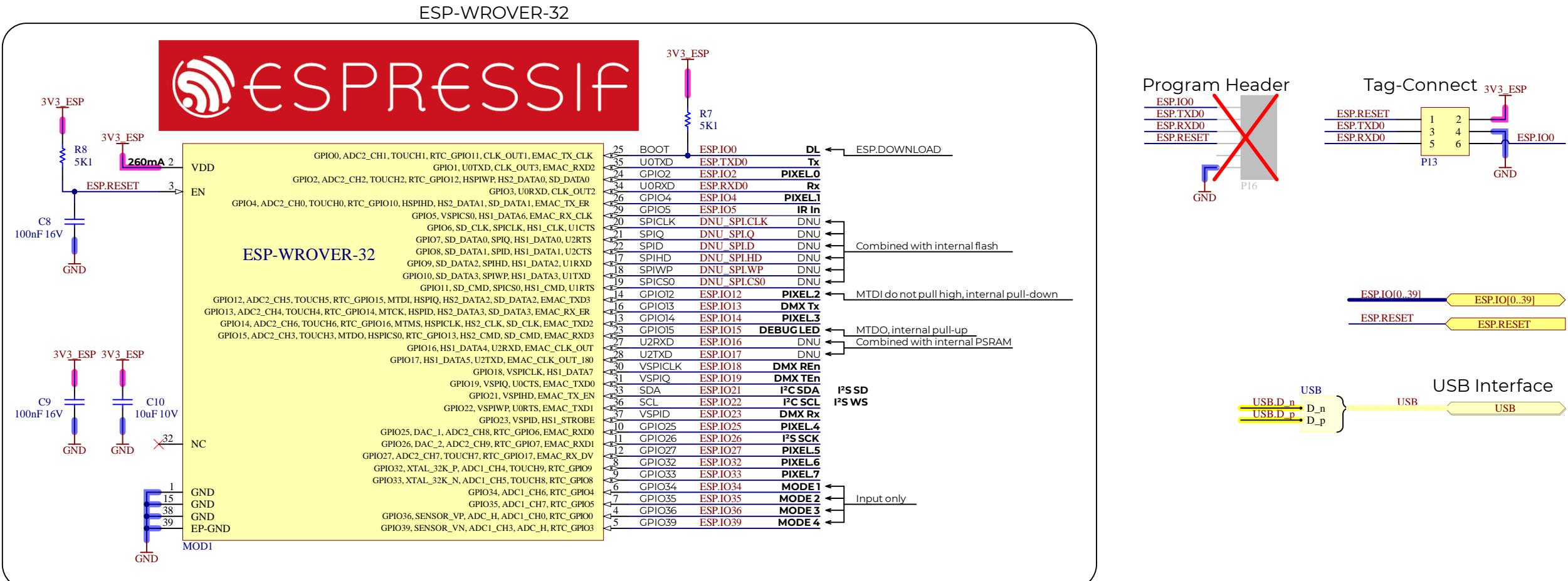
Fri3D Ira 2022**Top Level****Digital LED Strips****RS-485 Transceiver****Power input****Mode switch**

Variant: Minimal
 Housing : HMMFG 1593ARTBU
 Cable Gland : IPG-2227

Phyx		Title
		Top Level
Date	25/03/2024	Size
Revision	02	A3
Drawn By	Wim Van Gool	Sheet 1 of 4

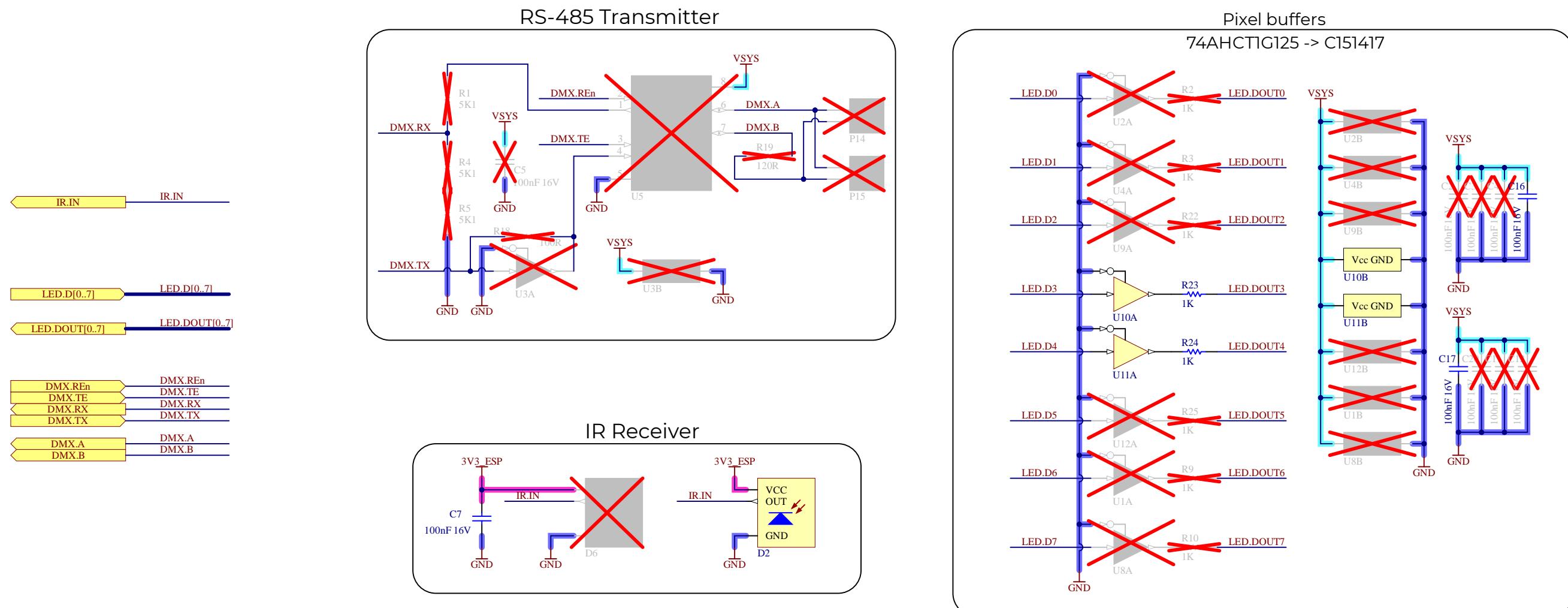
Fri3D Ira 2022

ESP32 Module



Fri3D Ira 2022

Peripherals



Fri3D Ira 2022

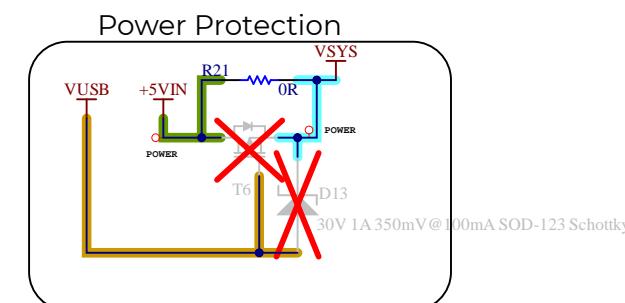
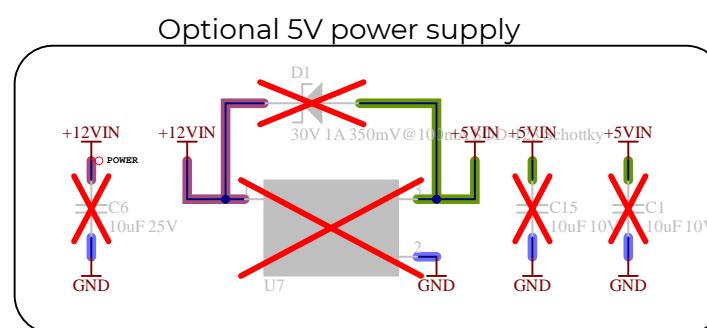
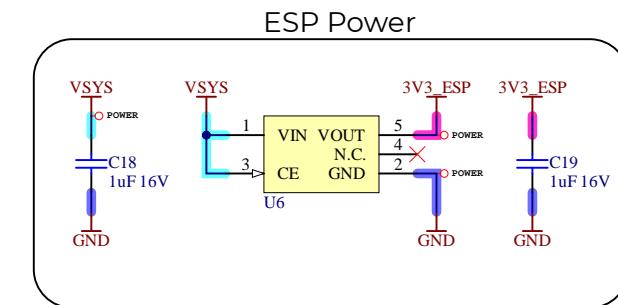
Power

A A

B B

C C

D D



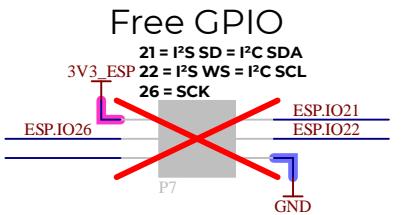
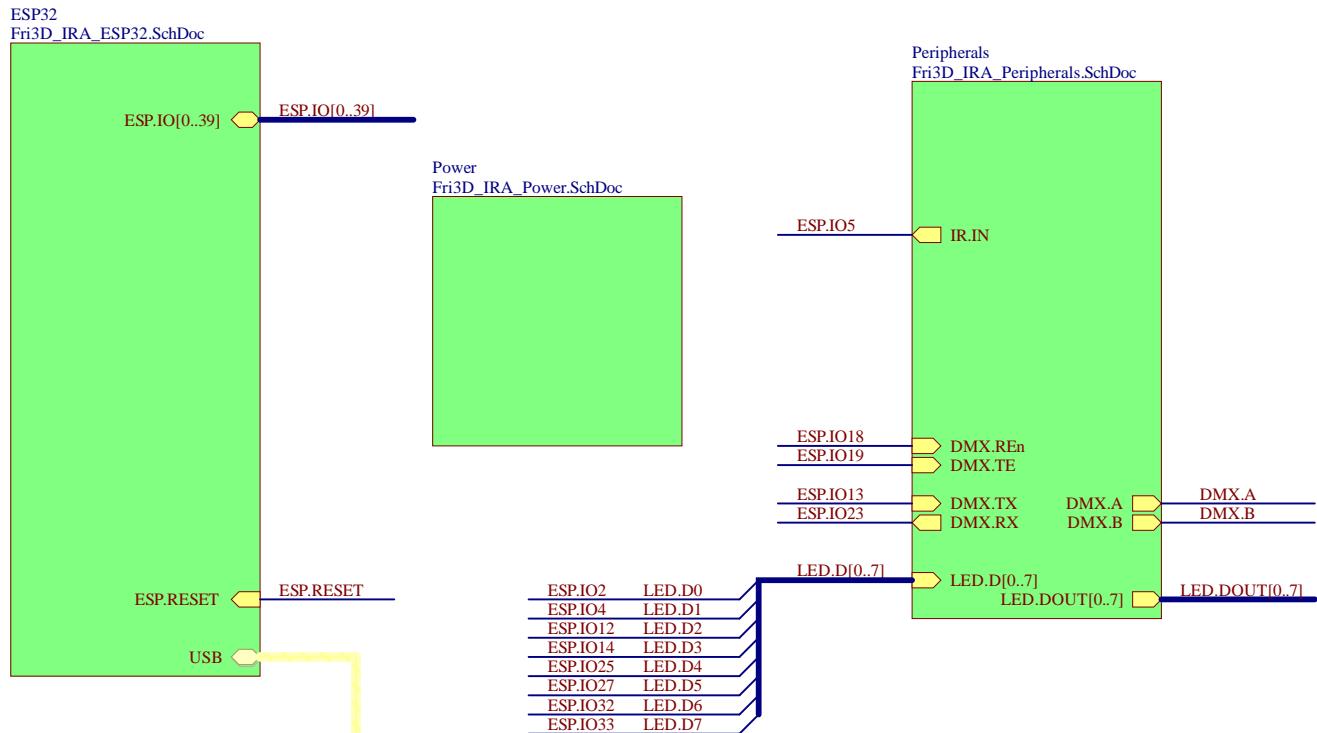
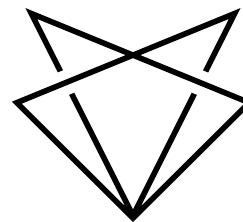
Rev. 00 : Initial release
 Rev. 01 : Bug Fixes
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Variants

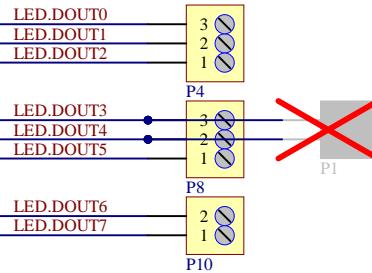
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Fri3D Ira 2022

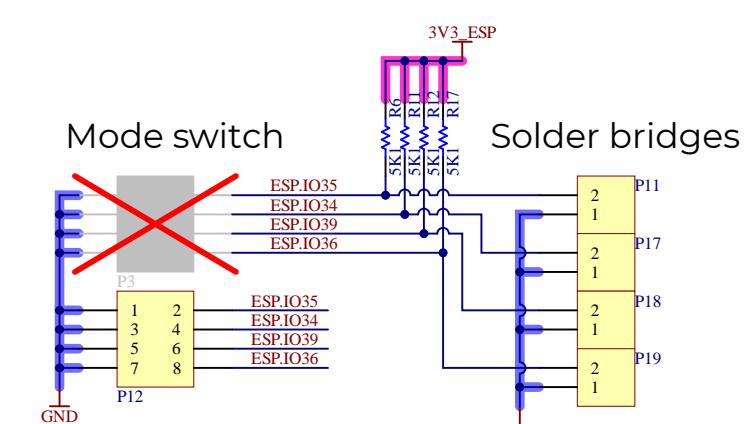
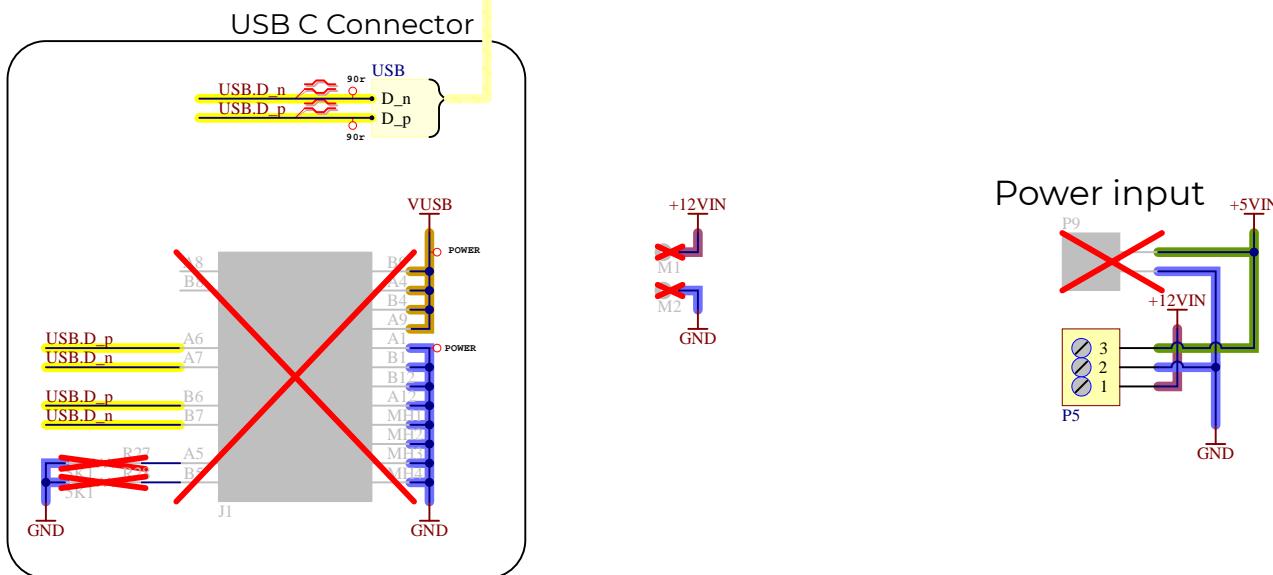
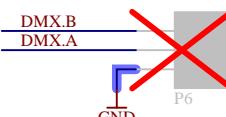
Top Level



Digital LED Strips



RS-485 Transceiver

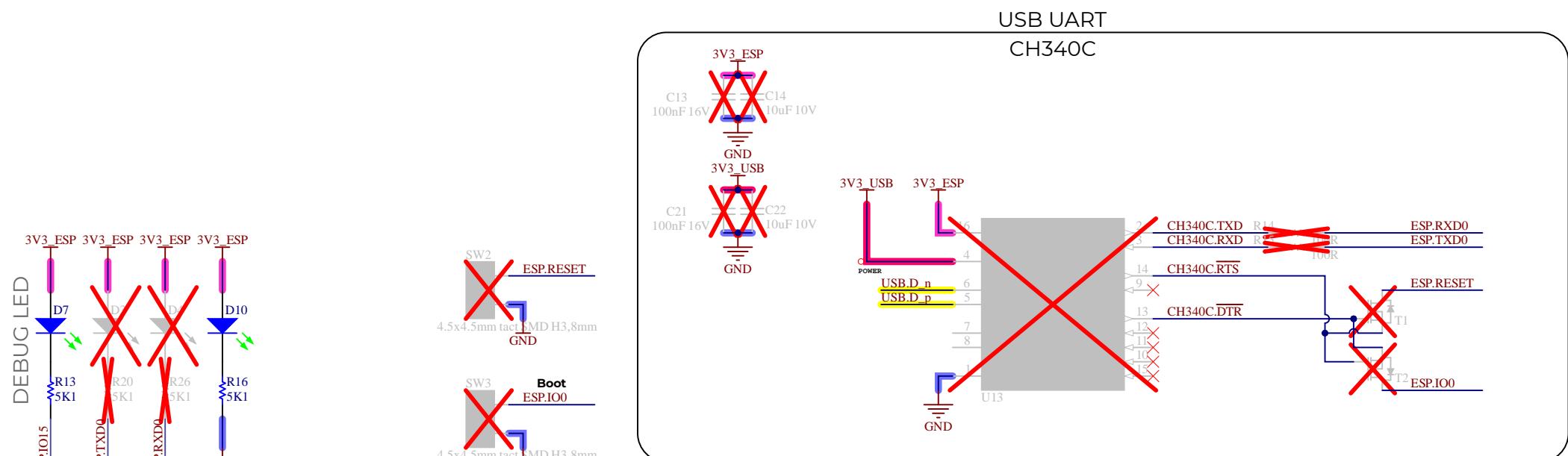
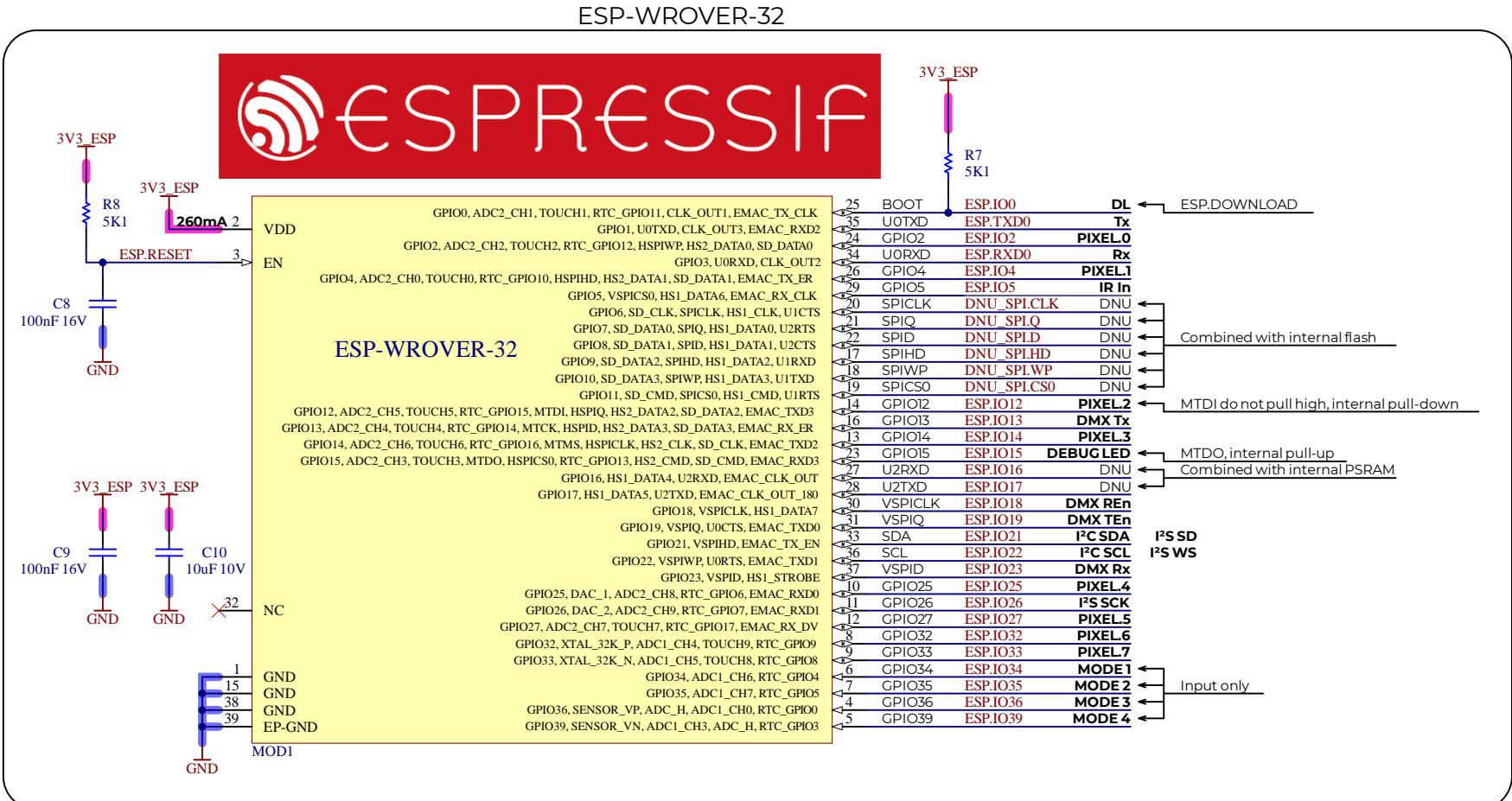


Variant: Default
 Housing : HMMFG 1593ARTBU
 Cable Gland : IPG-2227

Phyx		Title
		Top Level
Date	25/03/2024	Size
Revision	02	A3
Drawn By	Wim Van Gool	Sheet 1 of 4

Fri3D Ira 2022

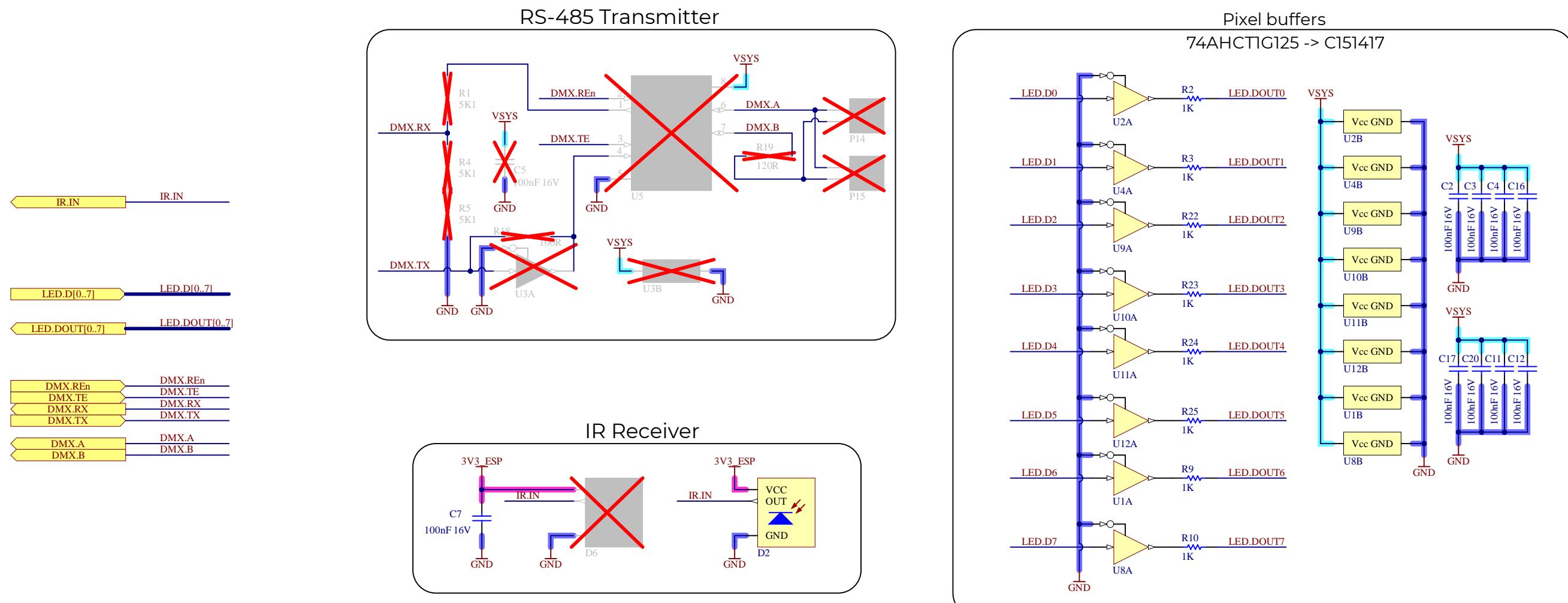
ESP32 Module



	Title ESP32 Module	
Date	25/03/2024	Size A3
Revision 02	Drawn By Wim Van Gool	Sheet 2 of 4

Fri3D Ira 2022

Peripherals



Fri3D Ira 2022

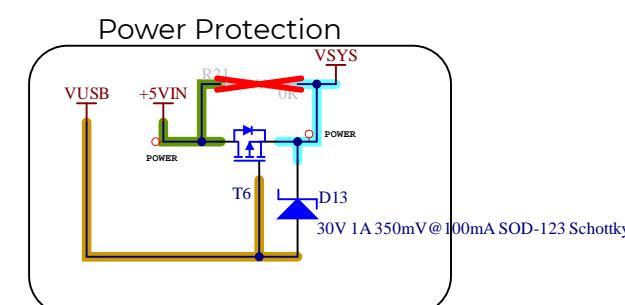
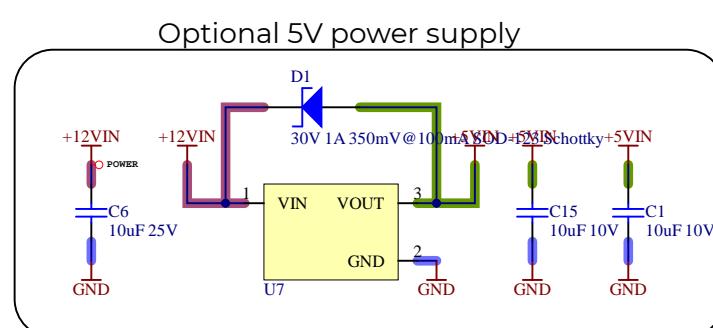
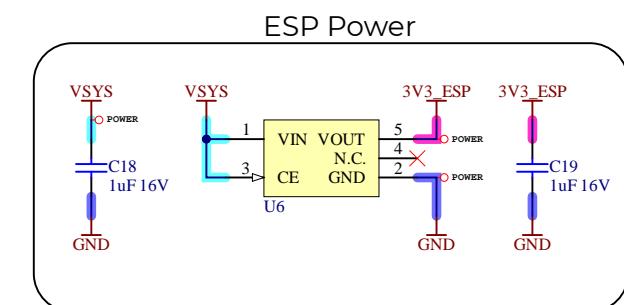
Power

A A

B B

C C

D D

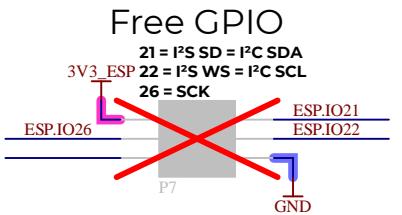
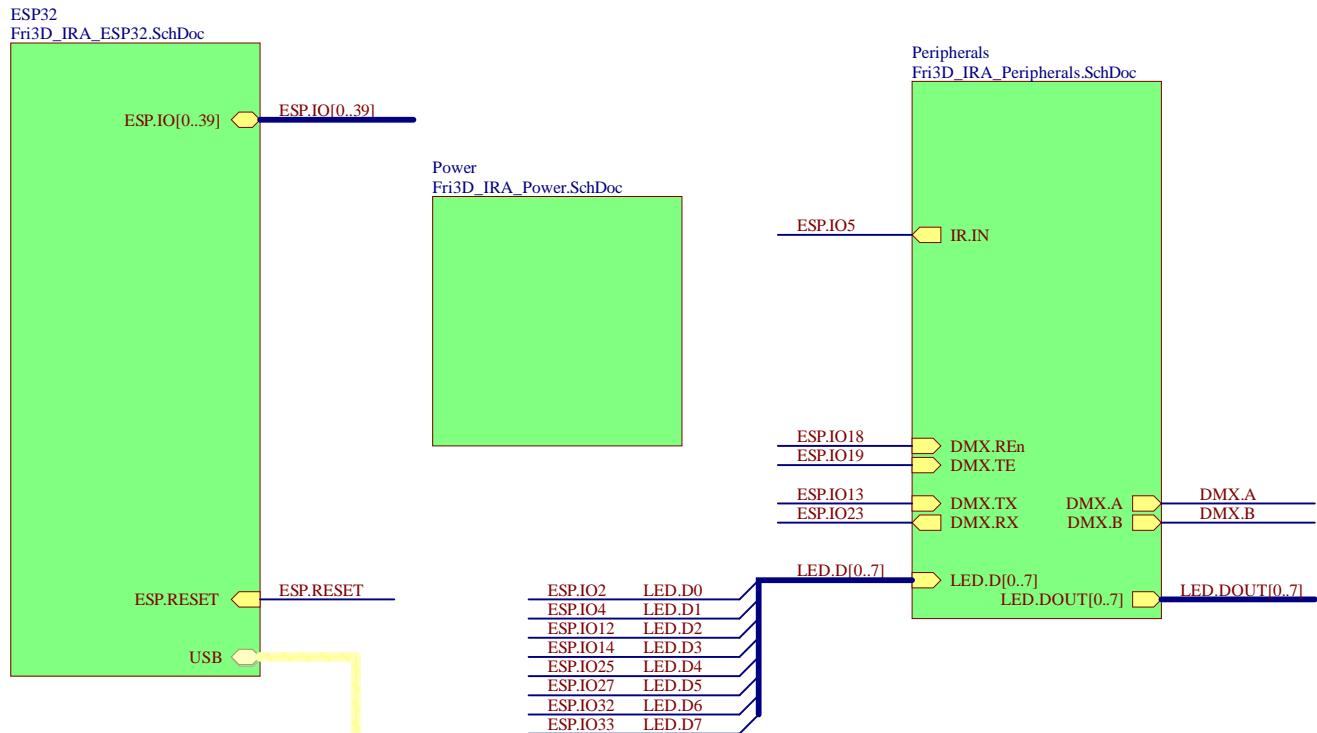
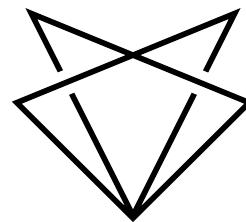
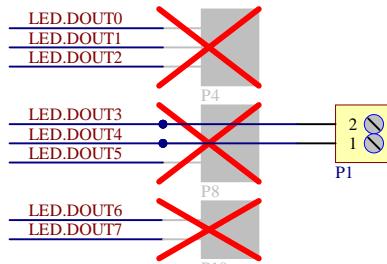
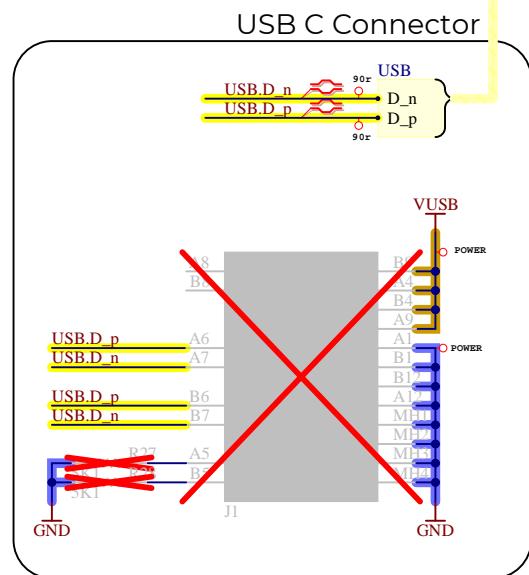
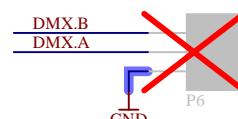
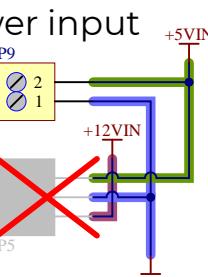
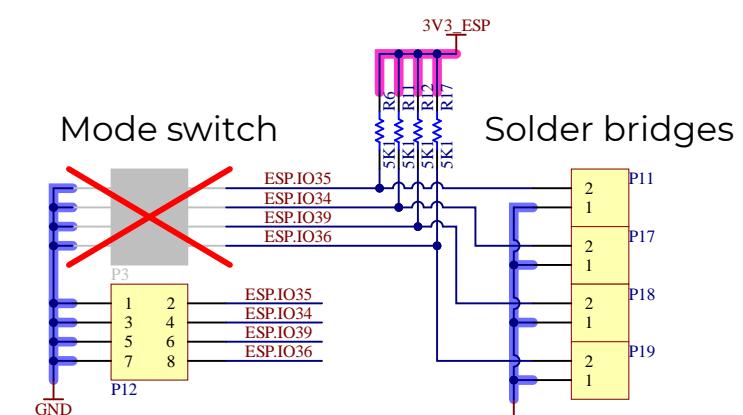


Phyx	Title Power
Revision 02	Date 25/03/2024 Size A3
	Drawn By Wim Van Gool Sheet 4 of 4

Rev. 00 : Initial release
 Rev. 01 : Bug Fixes
 Rev. 02 : More Outputs!

Variants

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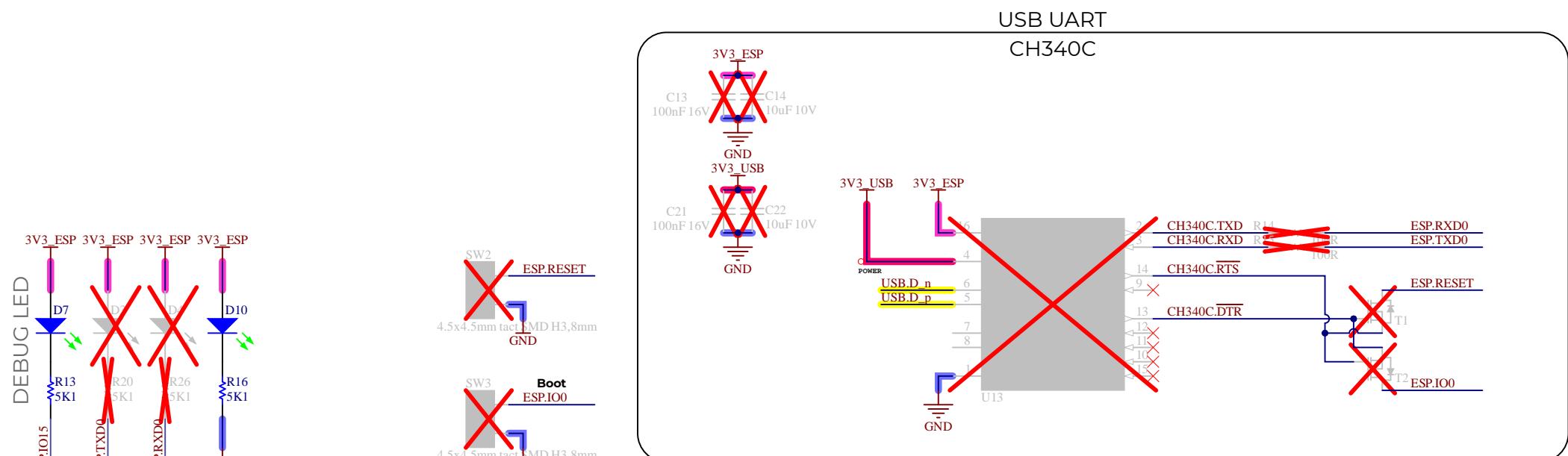
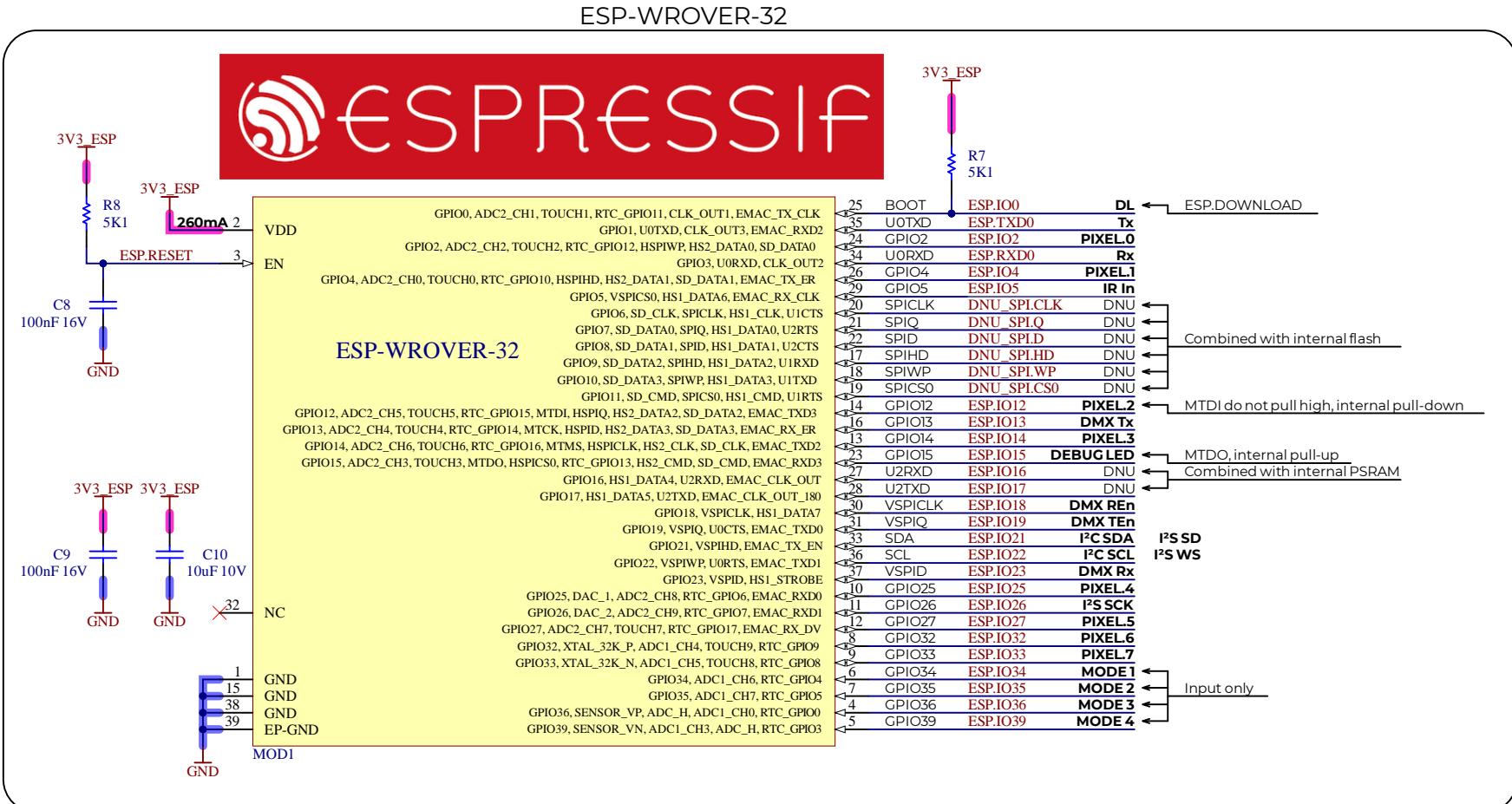
Fri3D Ira 2022**Top Level****Digital LED Strips****RS-485 Transceiver****Power input****Mode switch**

Variant: Minimal
 Housing : HMMFG 1593ARTBU
 Cable Gland : IPG-2227

Phyx		Title
		Top Level
Date	25/03/2024	Size
Revision	02	A3
Drawn By	Wim Van Gool	Sheet 1 of 4

Fri3D Ira 2022

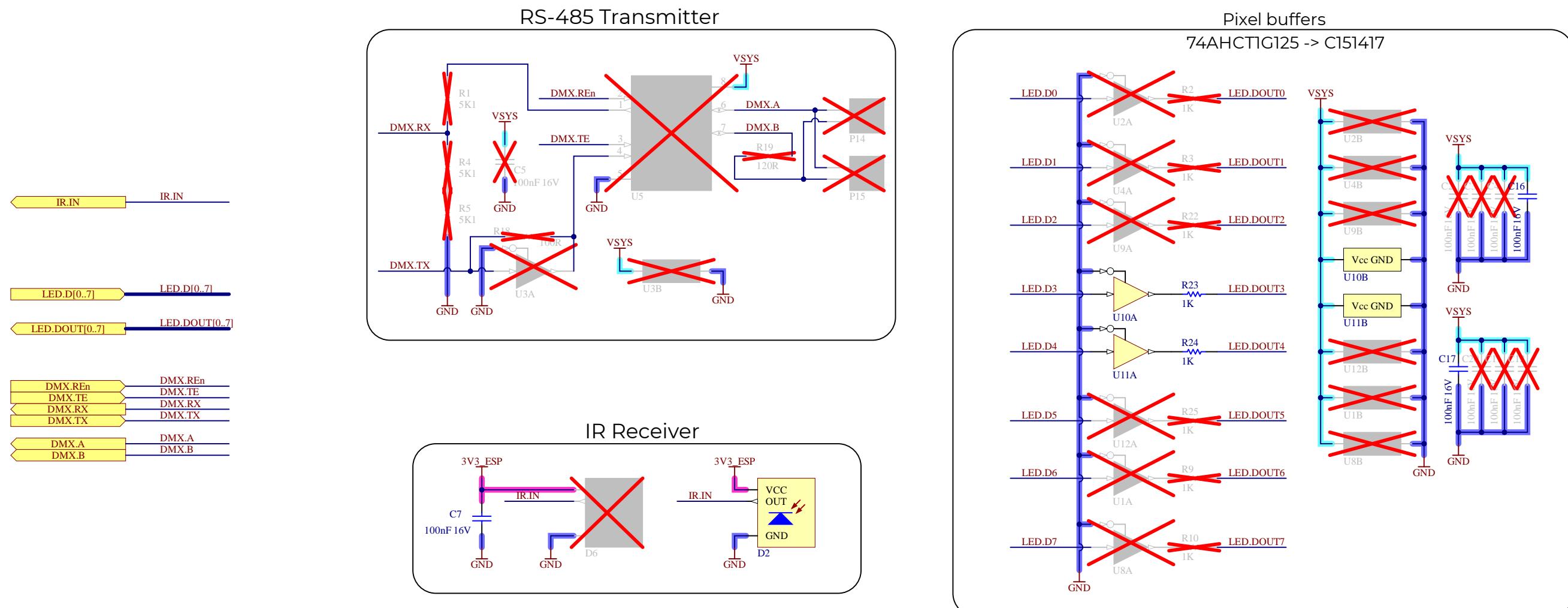
ESP32 Module



	Title ESP32 Module	
Date	25/03/2024	Size A3
Revision 02	Drawn By Wim Van Gool	Sheet 2 of 4

Fri3D Ira 2022

Peripherals



Fri3D Ira 2022

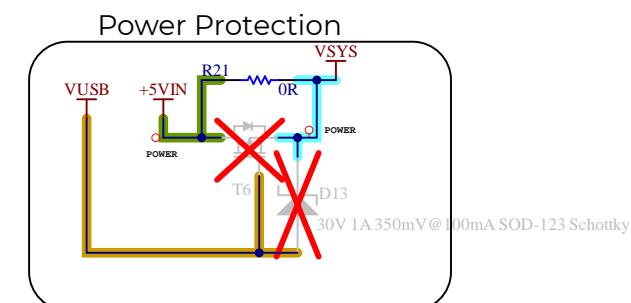
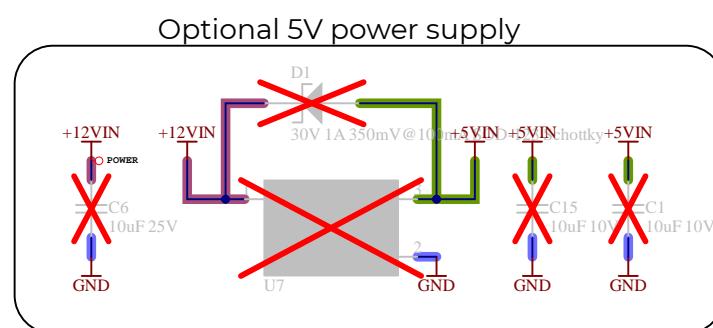
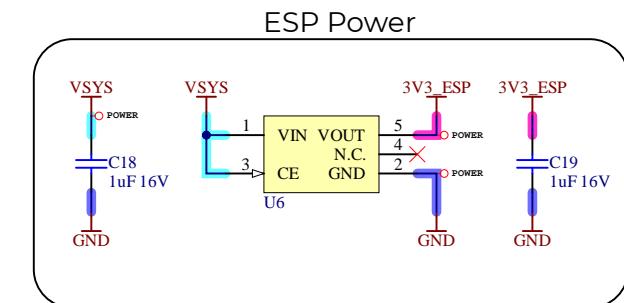
Power

A A

B B

C C

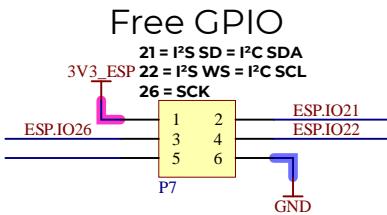
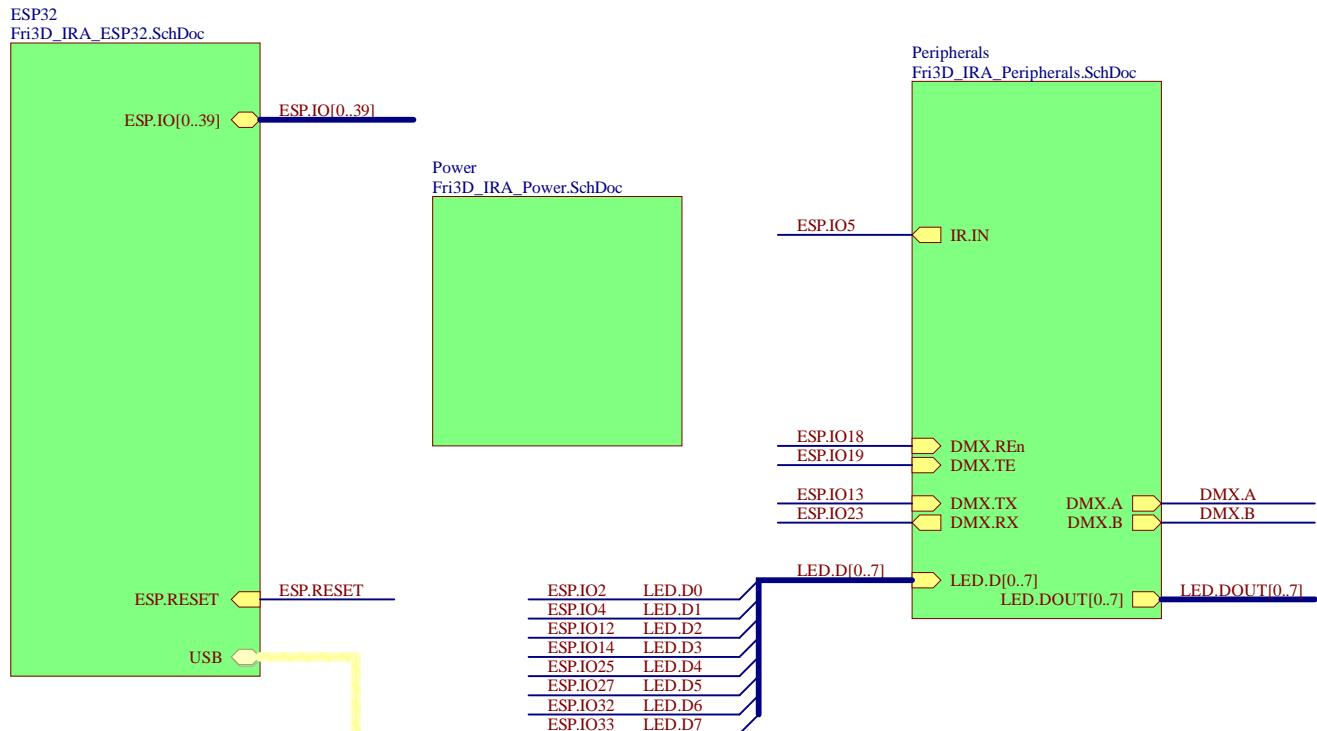
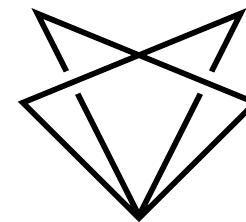
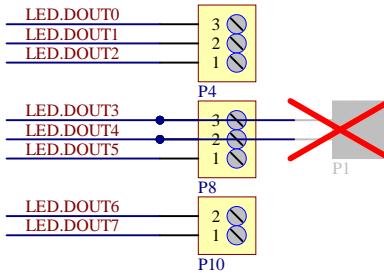
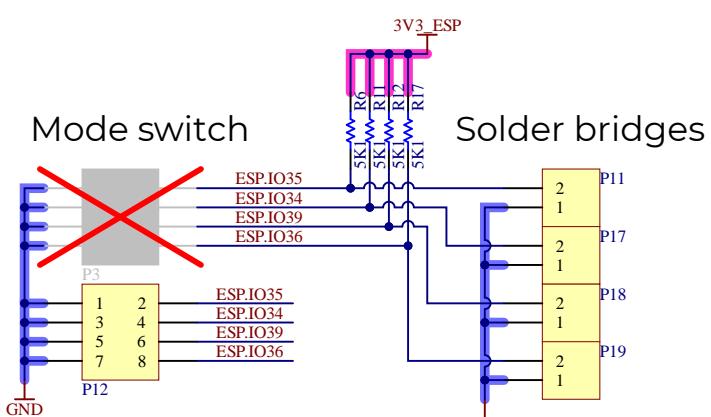
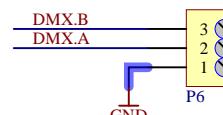
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Fri3D Ira 2022**Top Level****Digital LED Strips****RS-485 Transceiver**

A

A

B

B

C

C

D

D

1

2

3

4

5

6

7

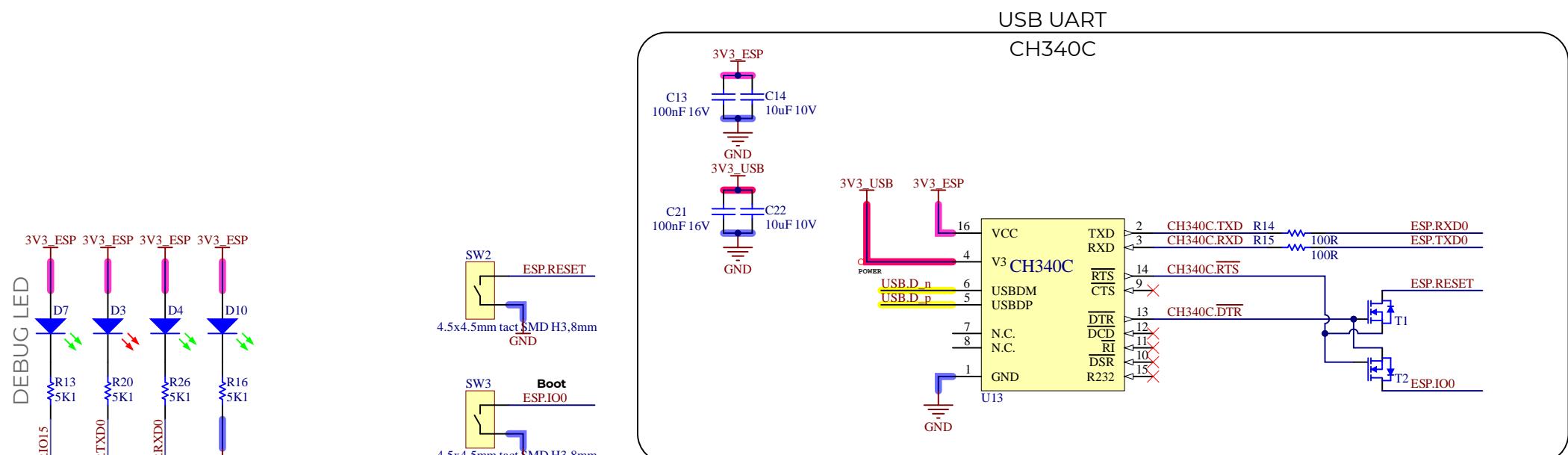
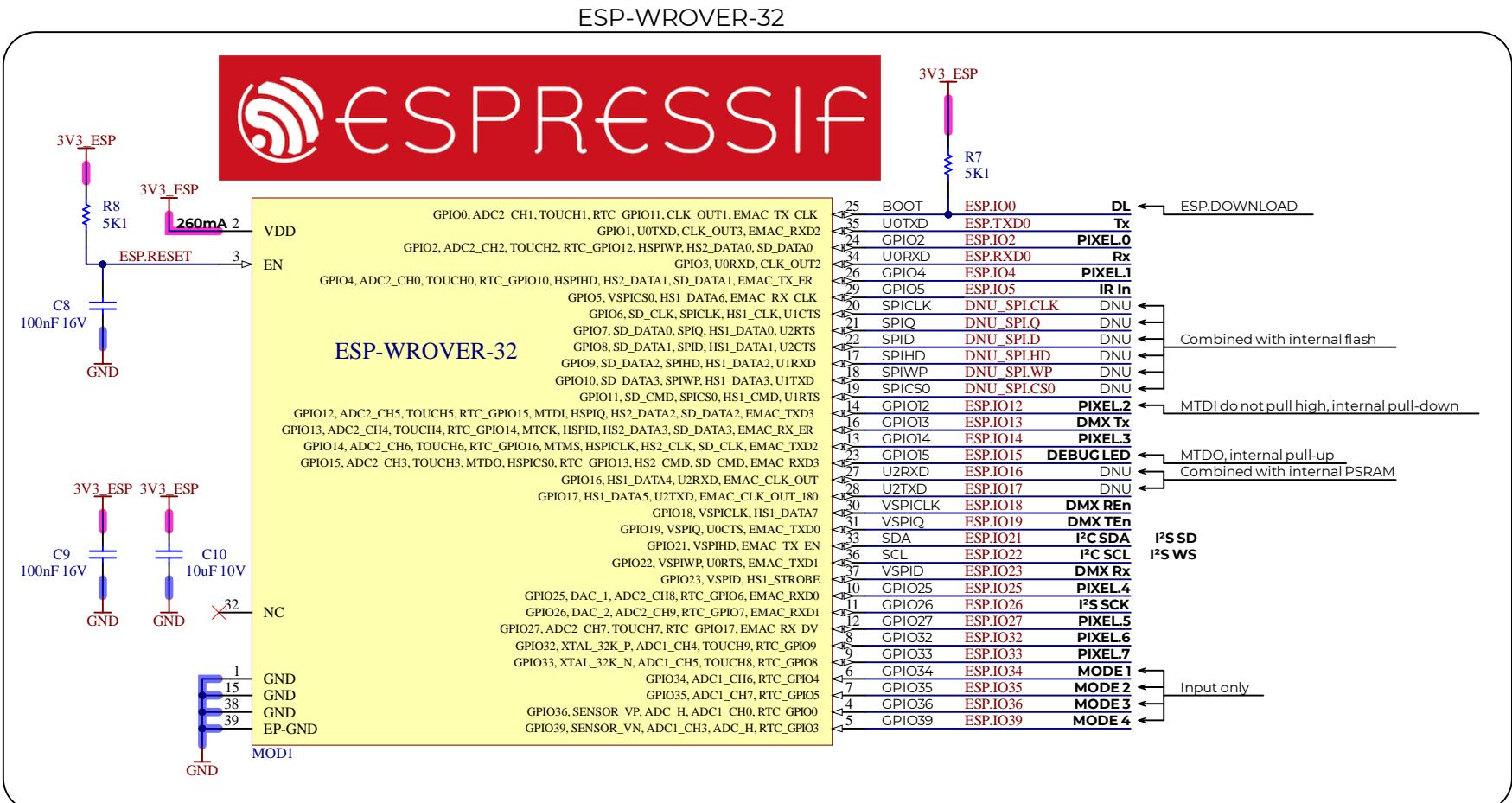
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Variant: Development
 Housing : HMMFG 1593ARTBU
 Cable Gland : IPG-2227

Phyx		Title
		Top Level
Date	25/03/2024	Size
Revision	02	Drawn By Wim Van Gool
		Sheet 1 of 4

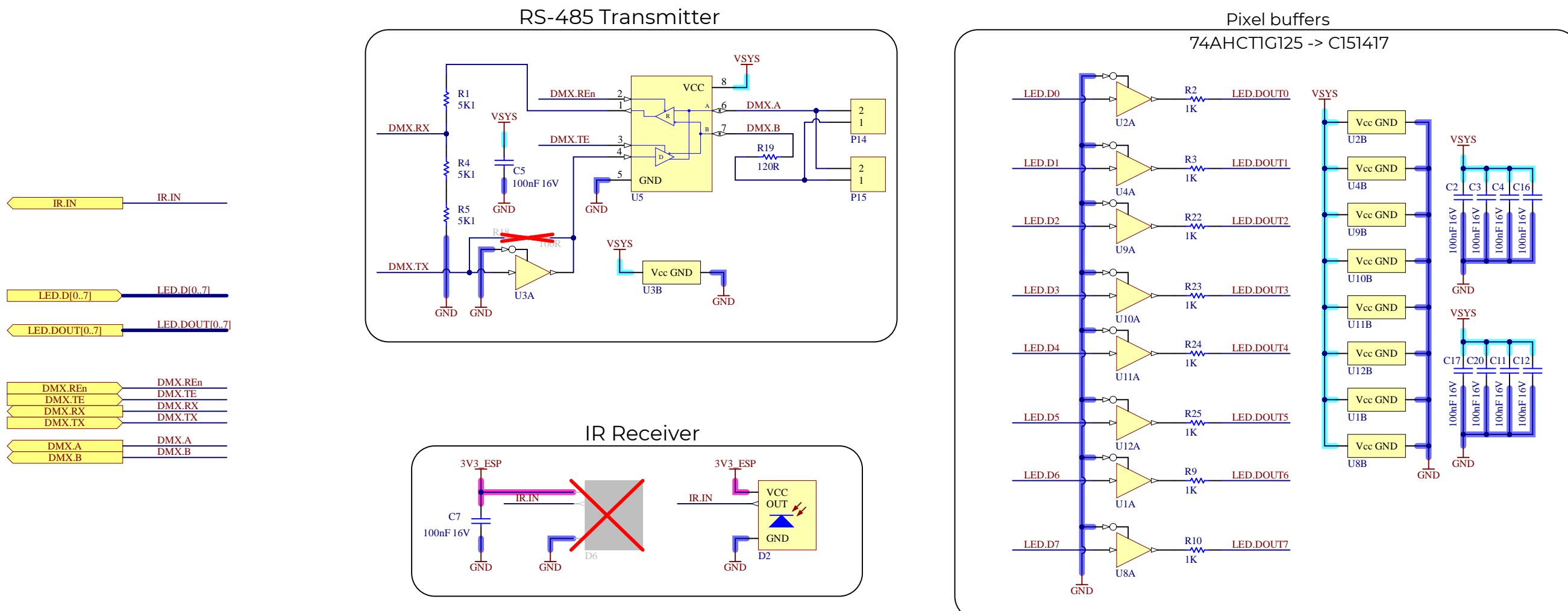
Fri3D Ira 2022

ESP32 Module



Fri3D Ira 2022

Peripherals



Fri3D Ira 2022

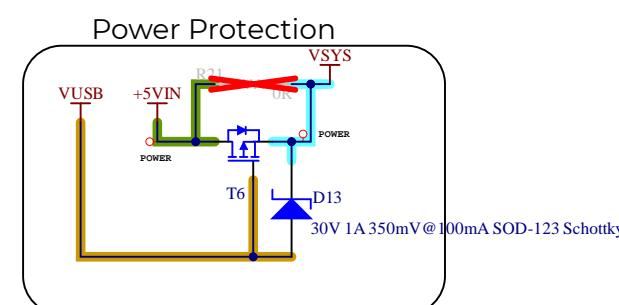
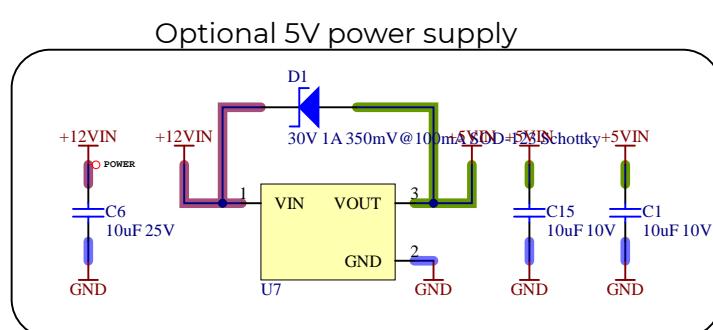
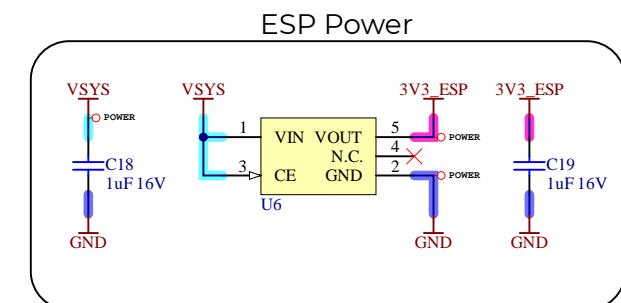
Power

A A

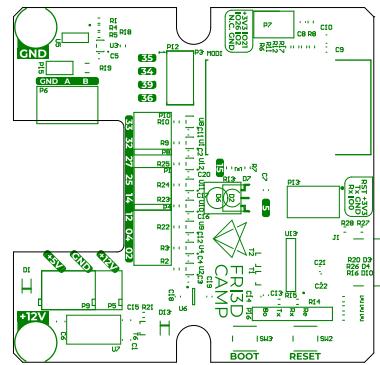
B B

C C

D D

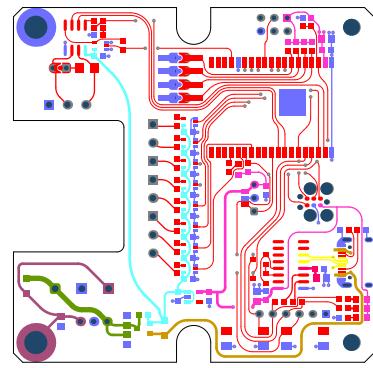


Phyx	Title Power
Date 25/03/2024	Size A3
Revision 02	Drawn By Wim Van Gool

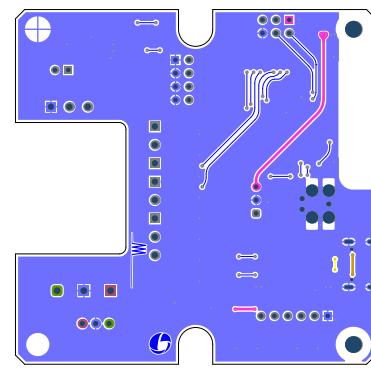


Phyx

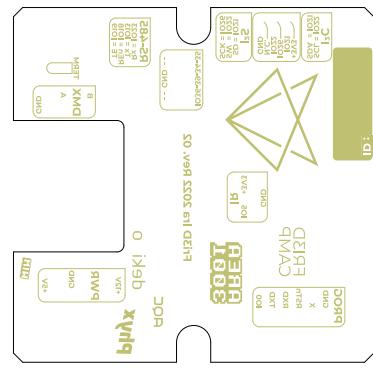
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	Layer Name	Top Overlay
Date	Rev	02
05/04/2024		
Designer	Document	
WimVUG	Fri3D_IRA_02.PcbDoc	



Phyx	Document Fri3D_Ira_2022
Layer Name Top Layer	
Date 05/04/2024	Rev 02
Designer WimUG	Document Fri3D_Ira_02.PcbDoc

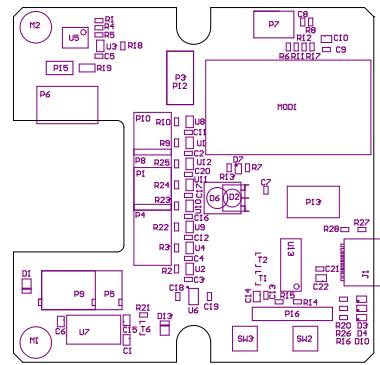


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Rev	02
Designer WimUG	Document Fri3D_Ira_02.PcbDoc

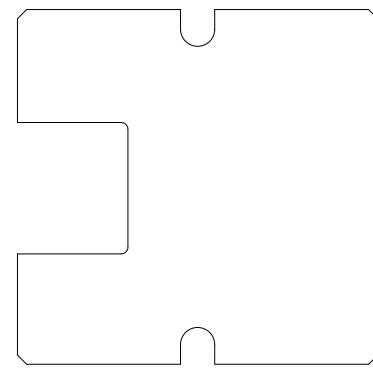


Phyx

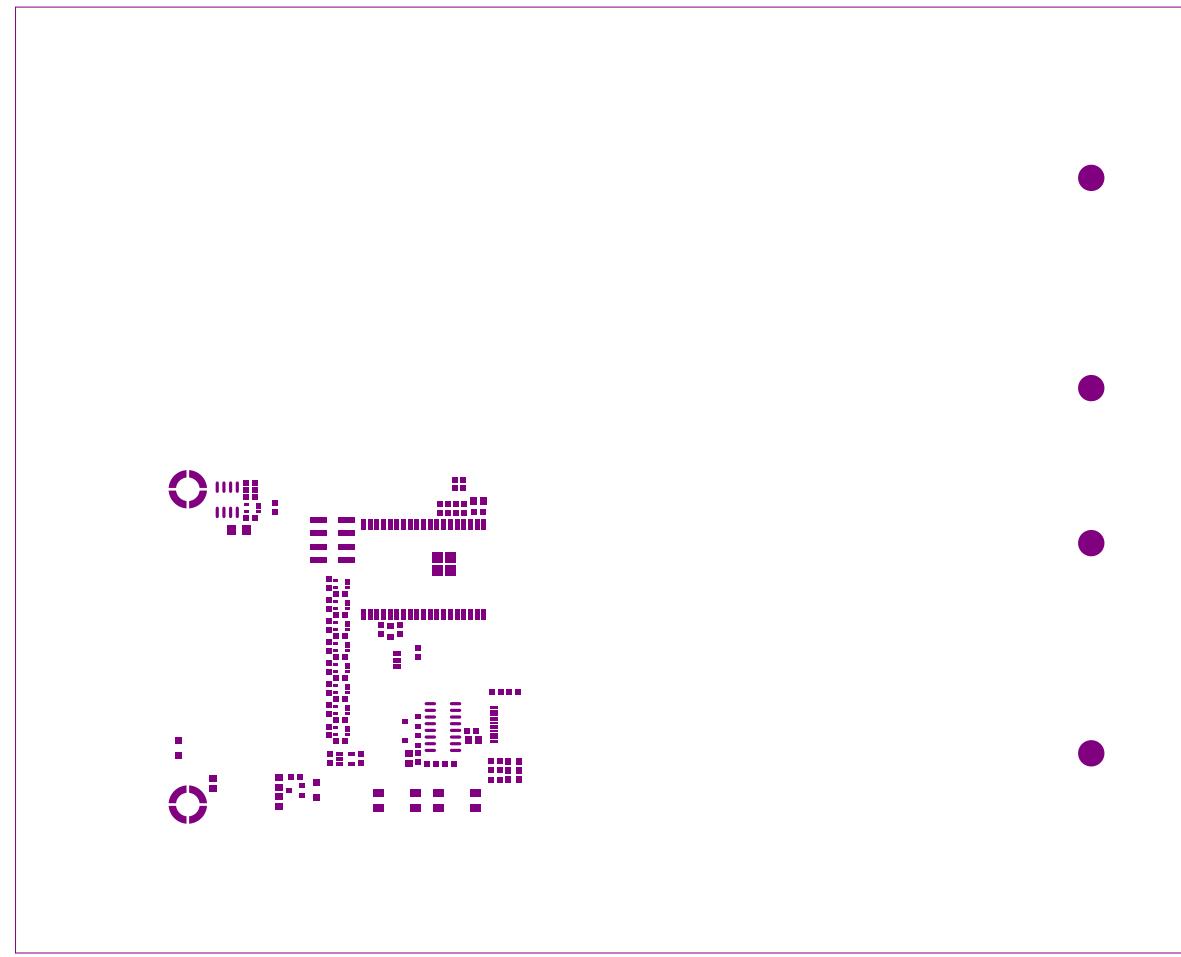
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	Layer Name	Bottom Overlay
Date	Rev	
05/04/2024	02	



Phyx	Document	Fri3D_Ira_2022
	Layer Name	Top Assembly
	Date	05/04/2024
	Rev	02
Designer	Document	
WimUG		Fri3D_Ira_02.PcbDoc



Phyx	Document Fri3D Ira 2022
Layer Name	Bottom Assembly
Date	Rev
05/04/2024	02
Designer WimUG	Document Fri3D_Ira_02.PcbDoc



Phyx	Document Fri3D Ira 2022
Layer Name Top Paste	
Date 05/04/2024	Rev 02
Designer WimUG	Document Fri3D_Ira_02.PcbDoc

