

Mandarinfish

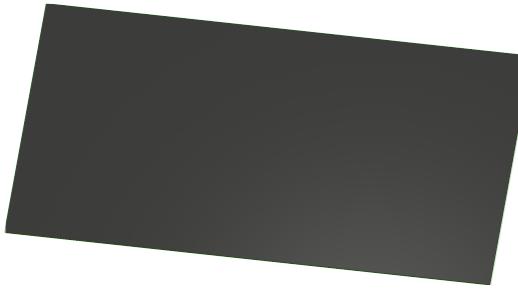
Variant: DRAFT

2025-12-14

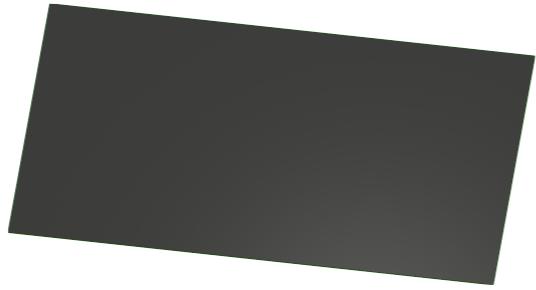
Rev + (Unreleased)

Page	Index	Page	Index	Page	Index	Page	Index
1	Cover Page	11	.....	21	.....	31	.....
2	Block Diagram	12	.....	22	.....	32	.....
3	Project Architecture	13	.....	23	.....	33	.....
4	MCU	14	.....	24	.....	34	.....
5	POWER	15	.....	25	.....	35	.....
6	IMU	16	.....	26	.....	36	.....
7	Screen	17	.....	27	.....	37	.....
8	Revision History	18	.....	28	.....	38	.....
9	Power - Sequencing	19	.....	29	.....	39	.....
10	.....	20	.....	30	.....	40	.....

### TOP VIEW



### BOTTOM VIEW



### NOTES

Comment

Not fitted components are marked as

DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There shouldn't be any mistakes. Contact the engineer if you find any.

RELEASED - A board with this schematic has been sent to production.

Date: 14-Dec-2025

### DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational design notes.

DESIGN NOTE:  
Example text for debug notes.

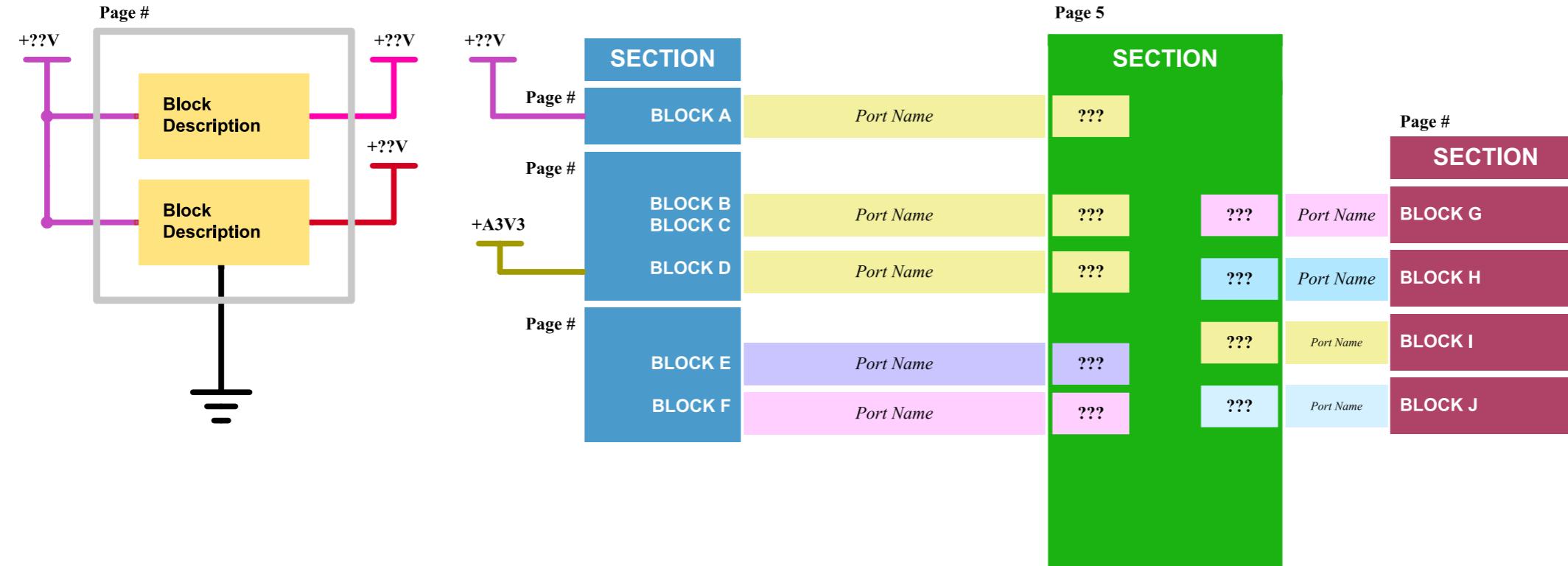
DESIGN NOTE:  
Example text for cautionary design notes.

DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:	Company: Company Name		Variant: DRAFT	Git Hash: 231f62d
		Board Name: <b>Mandarinfish</b>		Project Name: <b>OpenTamagochi</b>	
	Sheet Title:	File Name: OpenTamagochiHardware.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path:	/	Reviewer:	Size: <b>A3</b>	Sheet: <b>1</b> of <b>9</b>

# [2] Block Diagram

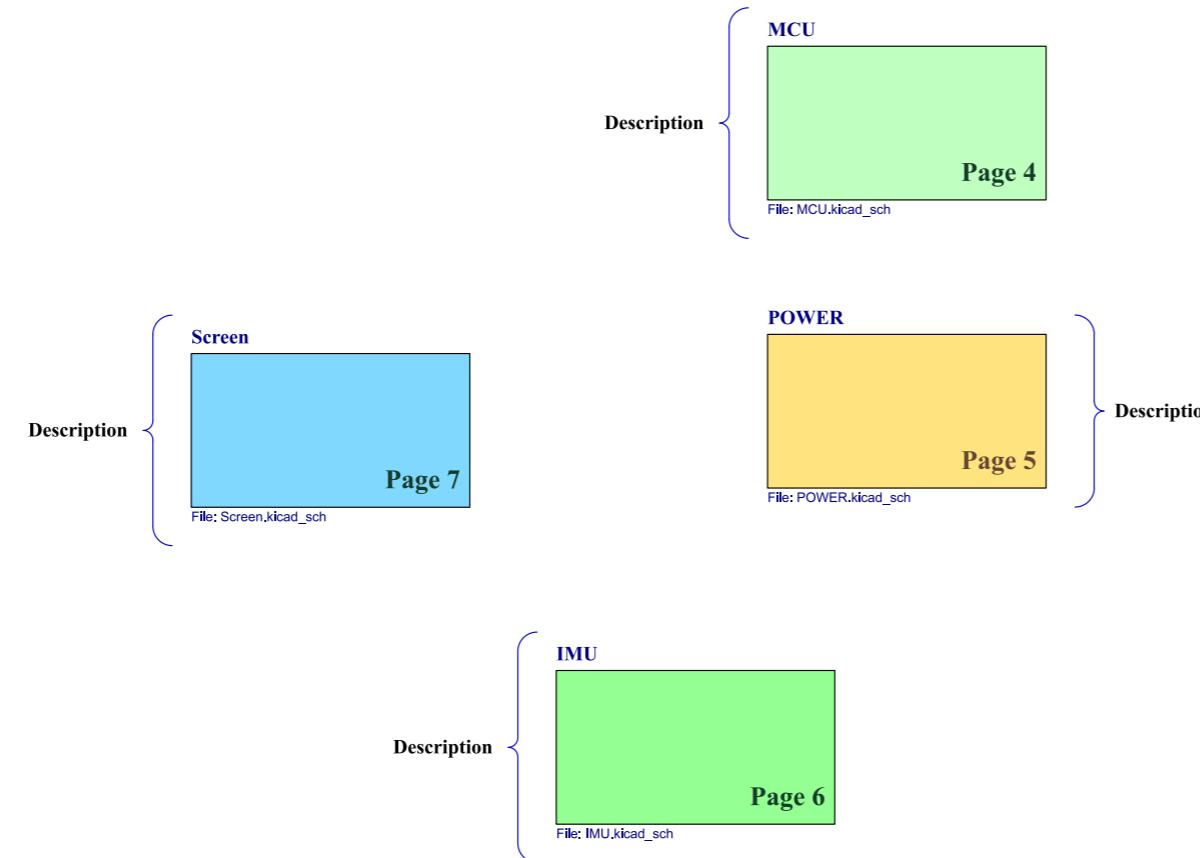


## Target specifications:

Input voltage:	?? - ?? V
Spec 2	??
Spec 3	??
Spec 4	??

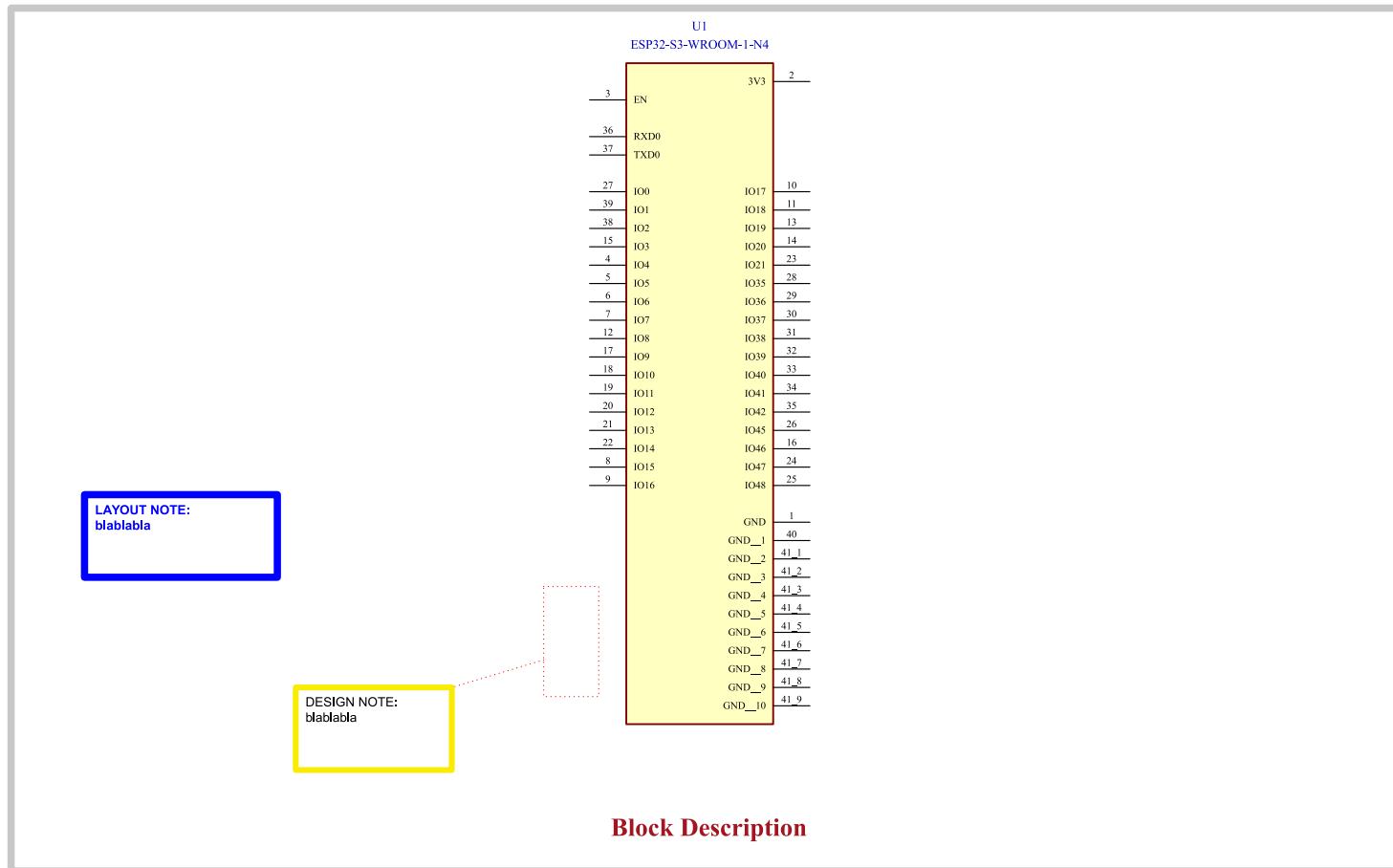
	Comments:	Company: Company Name	Variant: DRAFT	Git Hash: 231f62d
		Board Name: <b>Mandarinfish</b>	Project Name: <b>OpenTamagochi</b>	
	Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12 + (Unreleased)
	Sheet Path: /Block Diagram/		Reviewer:	Size: <b>A3</b> Sheet: <b>2 of 9</b>

# [3] Project Architecture



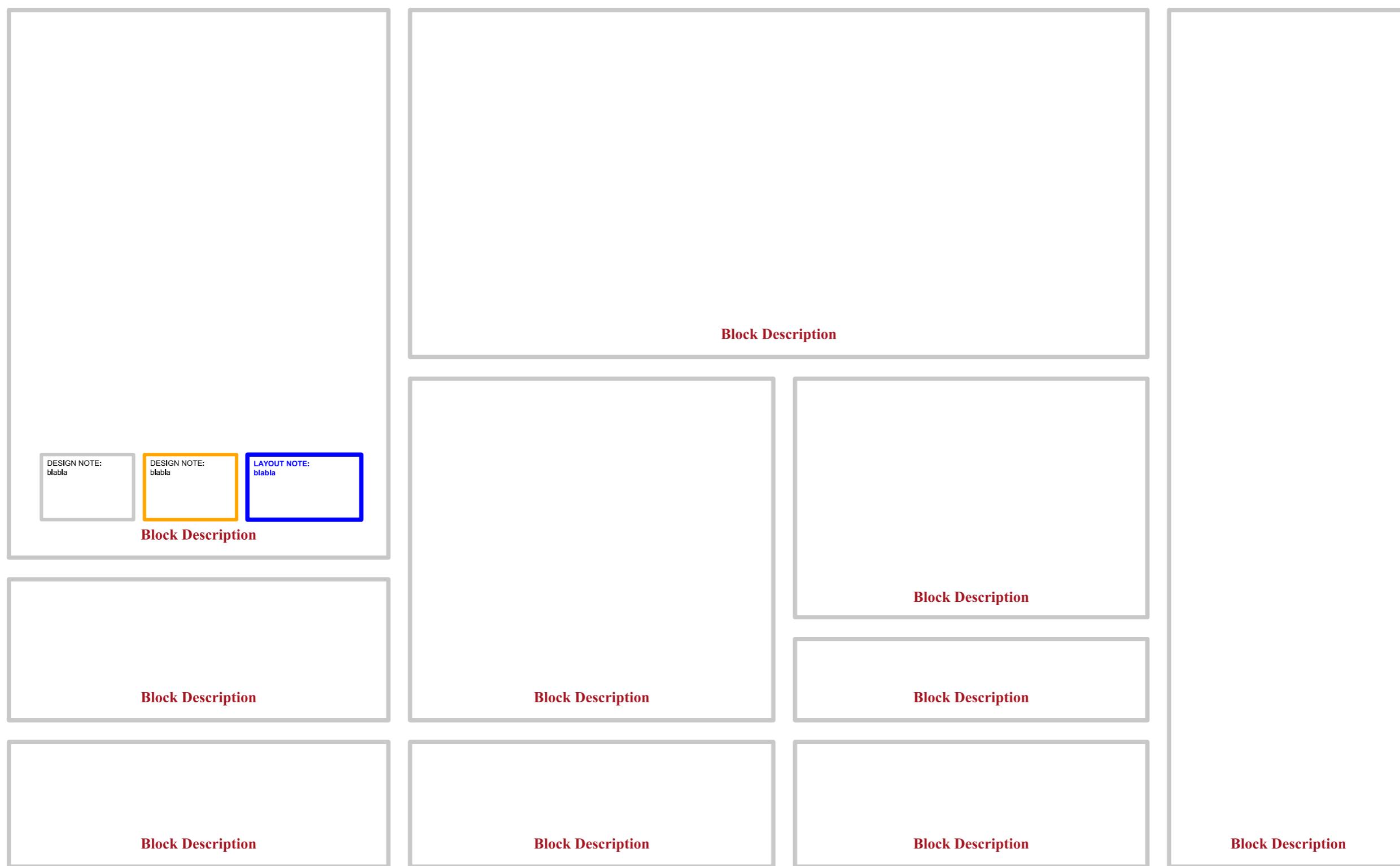
	Comments:	Company: Company Name	Variant: DRAFT	Git Hash: 231f62d
	Board Name: <b>Mandarinfish</b>	Project Name: <b>OpenTamagochi</b>		
	Sheet Title: Project Architecture	File Name: Project Architecture.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12 + (Unreleased)
	Sheet Path: /Project Architecture/		Reviewer:	Size: <b>A3</b> Sheet: <b>3 of 9</b>

# [4] MCU



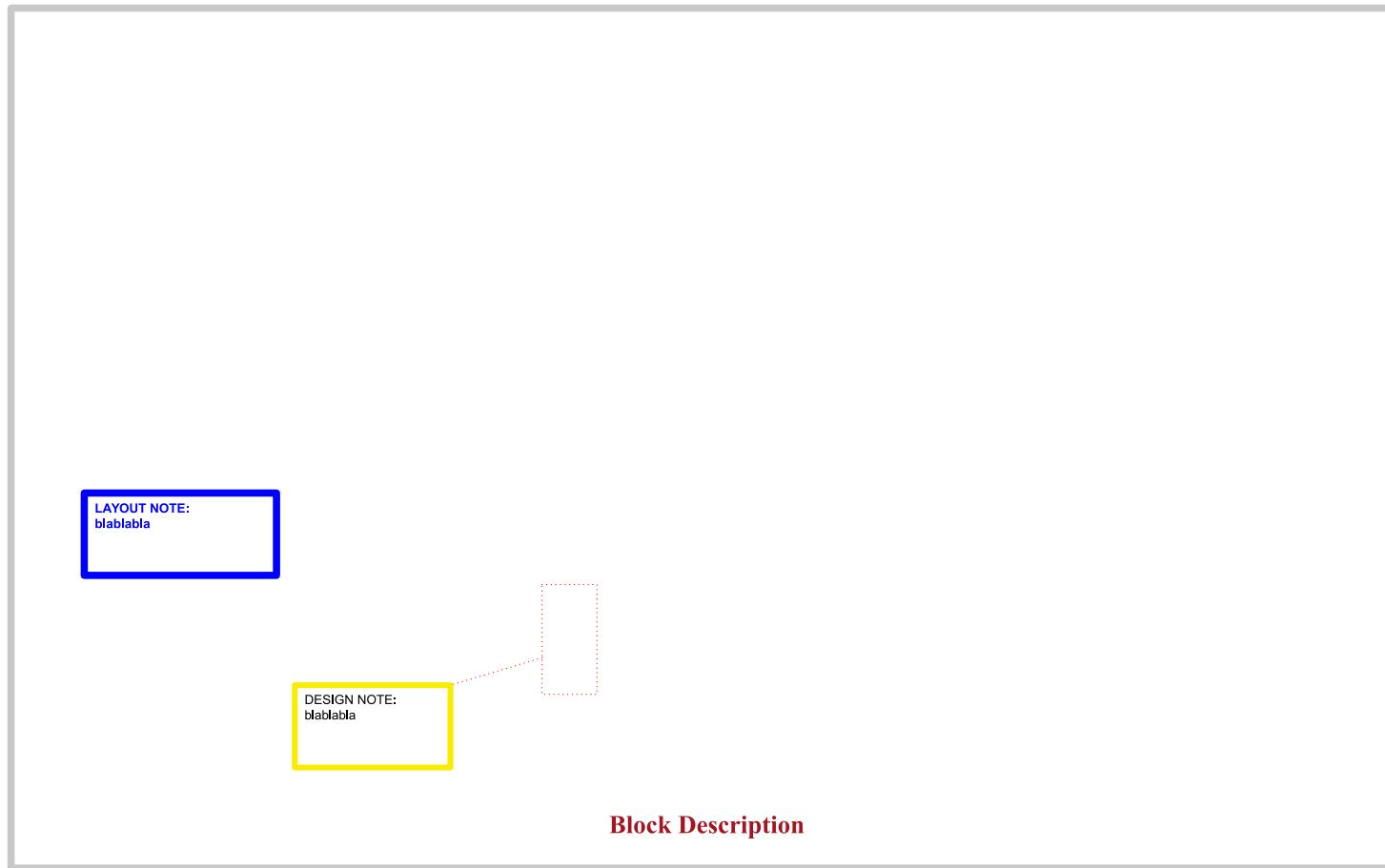
	Comments: AN5346 STM32G474 Datasheet p.81 J. Pieper ADC investigation	Company: <a href="#">Company Name</a>	Variant: DRAFT	Git Hash: 231ff62d
	Board Name: <b>Mandarinfish</b>			Project Name: <b>OpenTamagochi</b>
	Sheet Title: MCU	File Name: MCU.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12      Revision: + (Unreleased)
	Sheet Path: <a href="#">/Project Architecture/MCU/</a>		Reviewer:	Size: <b>A4</b> Sheet: <b>4</b> of <b>9</b>

# [5] Power



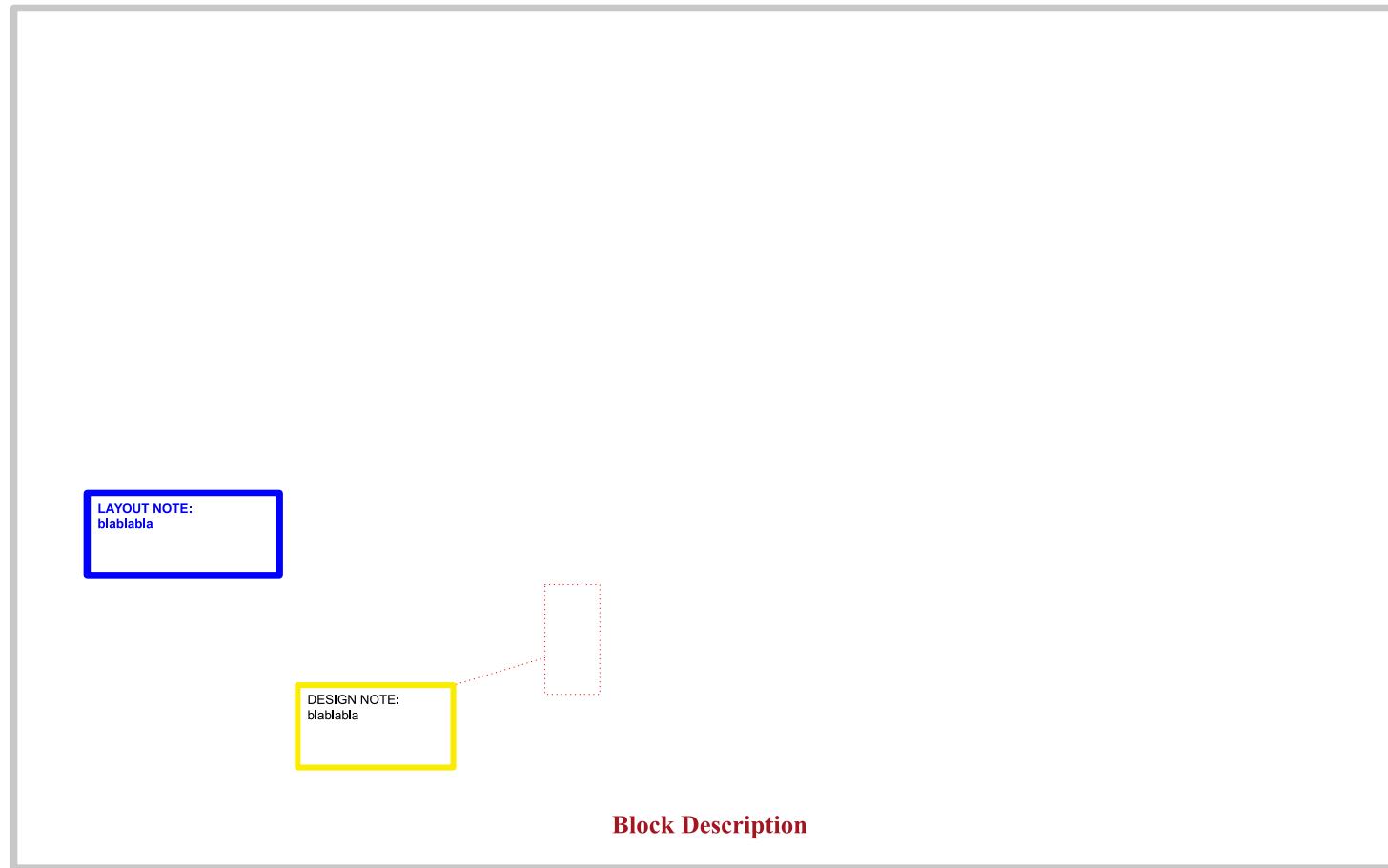
	Comments: References: Flexible I/O worked examples Flexible I/O source configuration	Company: Company Name	Variant: DRAFT	Git Hash: 231f62d
	Board Name: <b>Mandarinfish</b>	Project Name: <b>OpenTamagochi</b>		
	Sheet Title: Power	File Name: POWER.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12 + (Unreleased)
	Sheet Path: /Project Architecture/POWER/	Reviewer:	Size: <b>A3</b>	Sheet: <b>5 of 9</b>

# [6] screen



		Comments: AN5346 STM32G474 Datasheet p.81 J. Pieper ADC investigation	Company: Company Name	Variant: DRAFT	Git Hash: 231ff62d	
		Board Name: <b>Mandarinfish</b>	Project Name: <b>OpenTamagochi</b>			
		Sheet Title: screen	File Name: IMU.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12	
		Revision: + (Unreleased)			Sheet: <b>6 of 9</b>	
D		Sheet Path: <a href="#">/Project Architecture/IMU/</a>	Reviewer:	Size: <b>A4</b>		

# [7] screen



1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

			Comments: AN5346 STM32G474 Datasheet p.81 J. Pieper ADC investigation	Company: Company Name	Variant: DRAFT	Git Hash: 231ff62d
			Board Name: <b>Mandarinfish</b>	Project Name: <b>OpenTamagochi</b>		
			Sheet Title: screen	File Name: Screen.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12
			Sheet Path: /Project Architecture/Screen/	Reviewer:	Size: <b>A4</b>	Revision: + (Unreleased)
					Sheet: <b>7</b> of <b>9</b>	

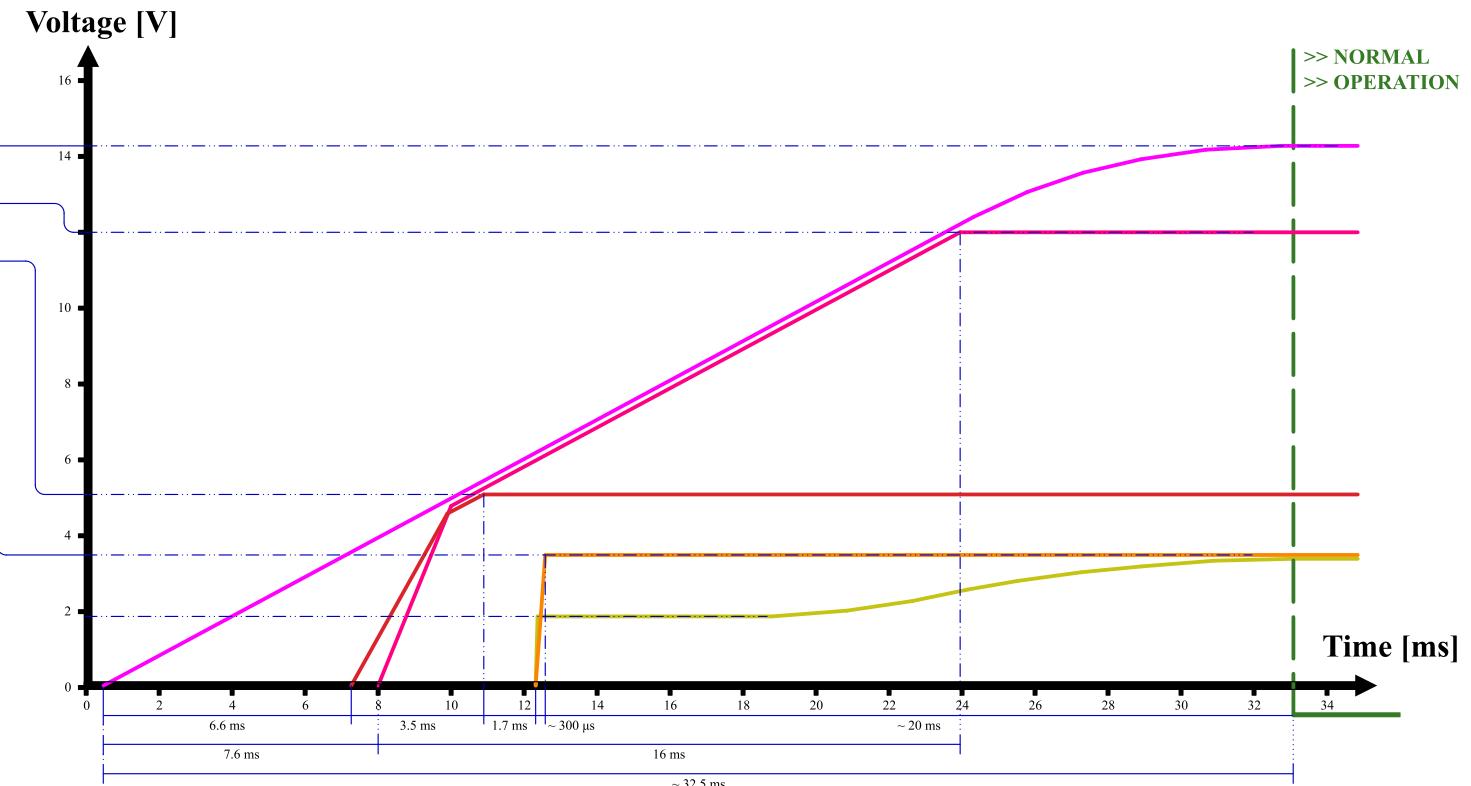
## [8] Revision History

A					A
B					B
C					C
D					D

		Comments:	Company: Company Name	Variant: DRAFT	Git Hash: 231ff62d
			Board Name: <b>Mandarinfish</b>	Project Name: <b>OpenTamagochi</b>	
		Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: Enrique Ramirez	Date: 2025-01-12 Revision: + (Unreleased)
		Sheet Path: <a href="#">/Revision History/</a>			Reviewer: <b>A4</b> Size: <b>8 of 9</b> Sheet:

# [9] Power - Sequencing

NAME	SOURCE	LEVEL
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%



		Comments:  Company: Company Name  Board Name: <b>Mandarinfish</b>	Variant: DRAFT		Git Hash: 231ff62d
			Project Name: <b>OpenTamagochi</b>		
			Sheet Title: Power - Sequencing	File Name: Power - Sequencing.kicad_sch	Designer: Enrique Ramirez
			Date: 2025-01-12		Revision: + (Unreleased)
Sheet Path: <a href="#">/Power - Sequencing/</a>			Reviewer:	Size: <b>A4</b>	Sheet: <b>9</b> of 9