

# LAN8742A-breakout-board

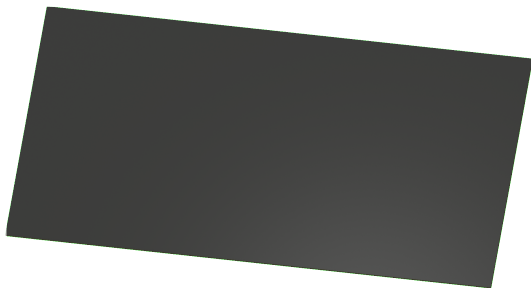
Variant: DRAFT

2025-10-05

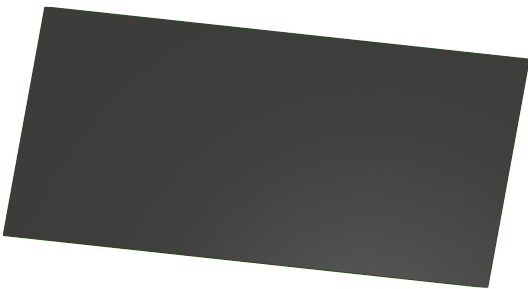
Rev + (Unreleased)

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## TOP VIEW



## BOTTOM VIEW



## NOTES

Comment

Not fitted components are marked as **X**

**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: 05-Oct-2025

## DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational design notes.

DESIGN NOTE:  
Example text for debug notes.

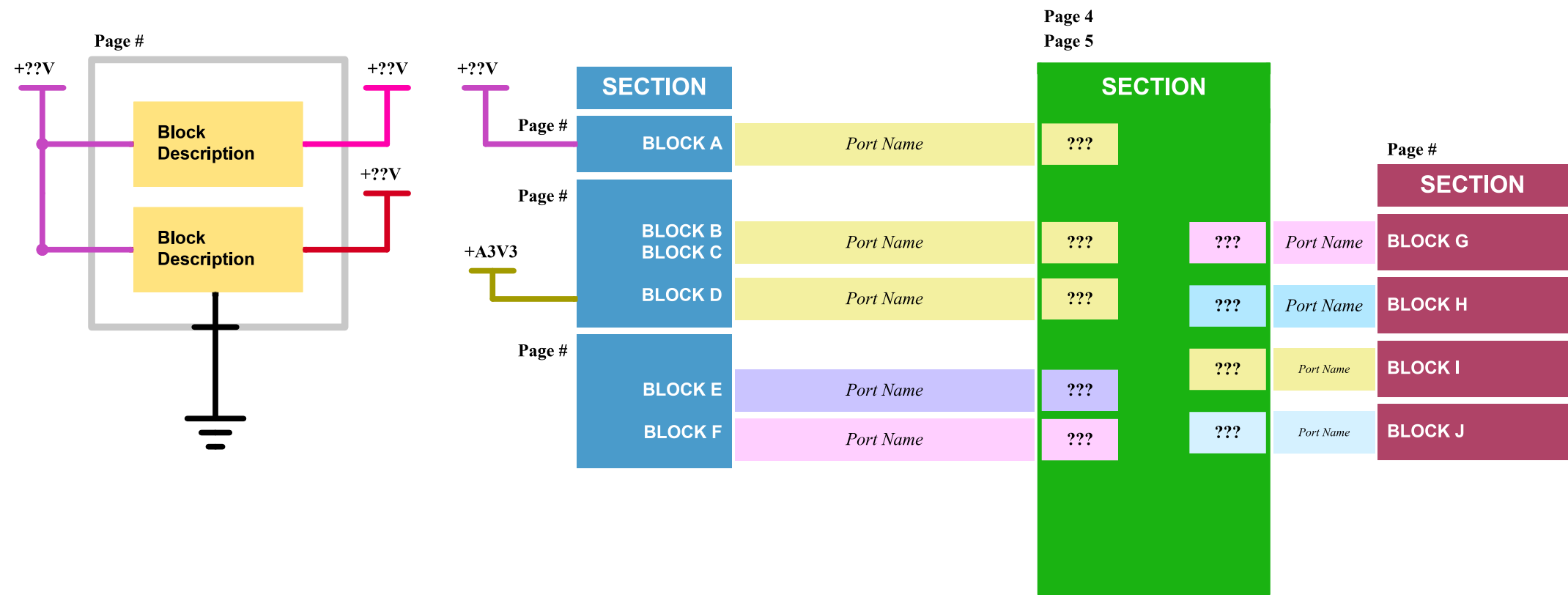
DESIGN NOTE:  
Example text for cautionary design notes.

DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 0fac436
		Board Name: LAN8742A-breakout-board		Project Name: LAN8742A Breakout	
	Sheet Title:	File Name: LAN8742A-breakout.kicad_sch	Designer: Tropikej	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path: /		Reviewer:	Size: A3	Sheet: 1 of 7

[2] Block Diagram



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

	Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 0fac436
		Board Name: LAN8742A-breakout-board		Project Name: LAN8742A Breakout	
	Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: Tropikej	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path: /Block Diagram/		Reviewer:	Size: A3	Sheet: 2 of 7

# [3] Project Architecture

Description

Section A – Title A

Page 4

File: Section A - Title A.kicad\_sch

Section B – Title B

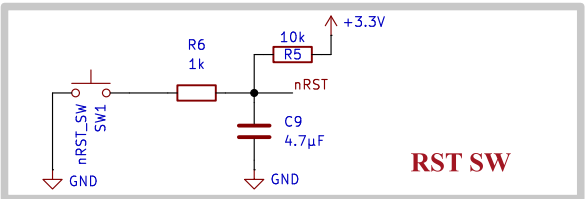
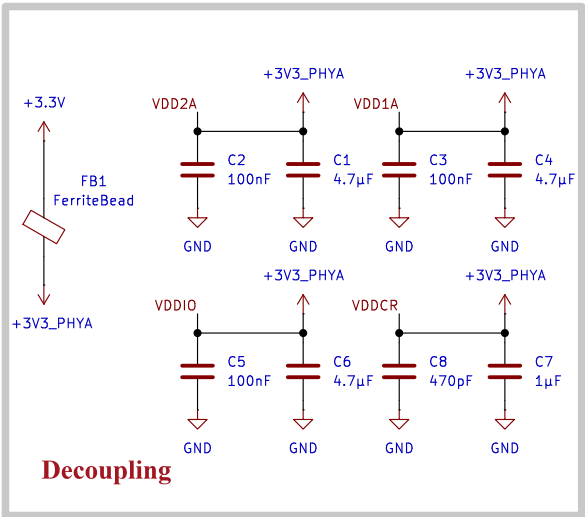
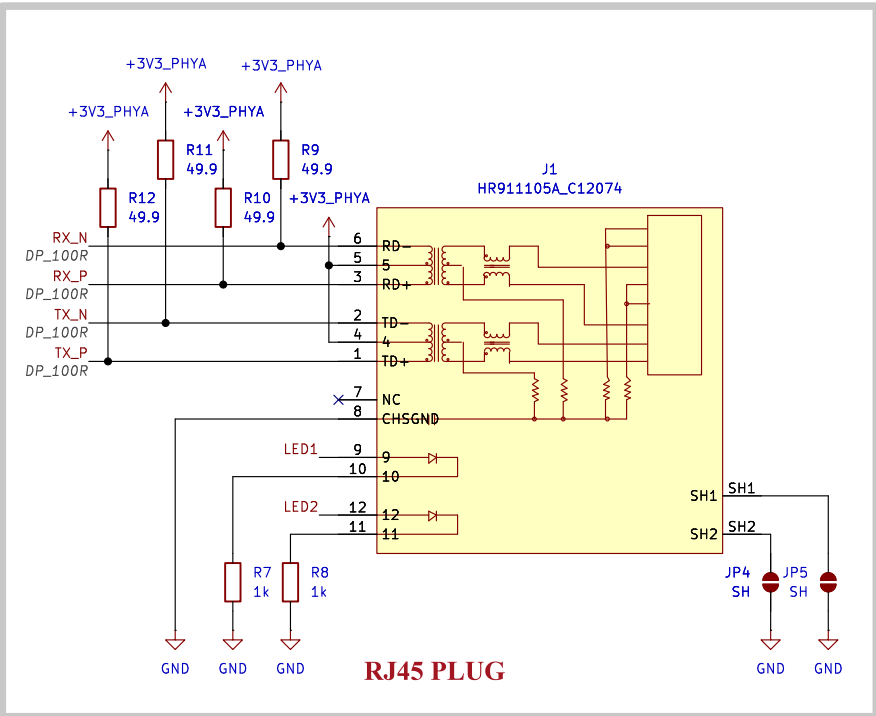
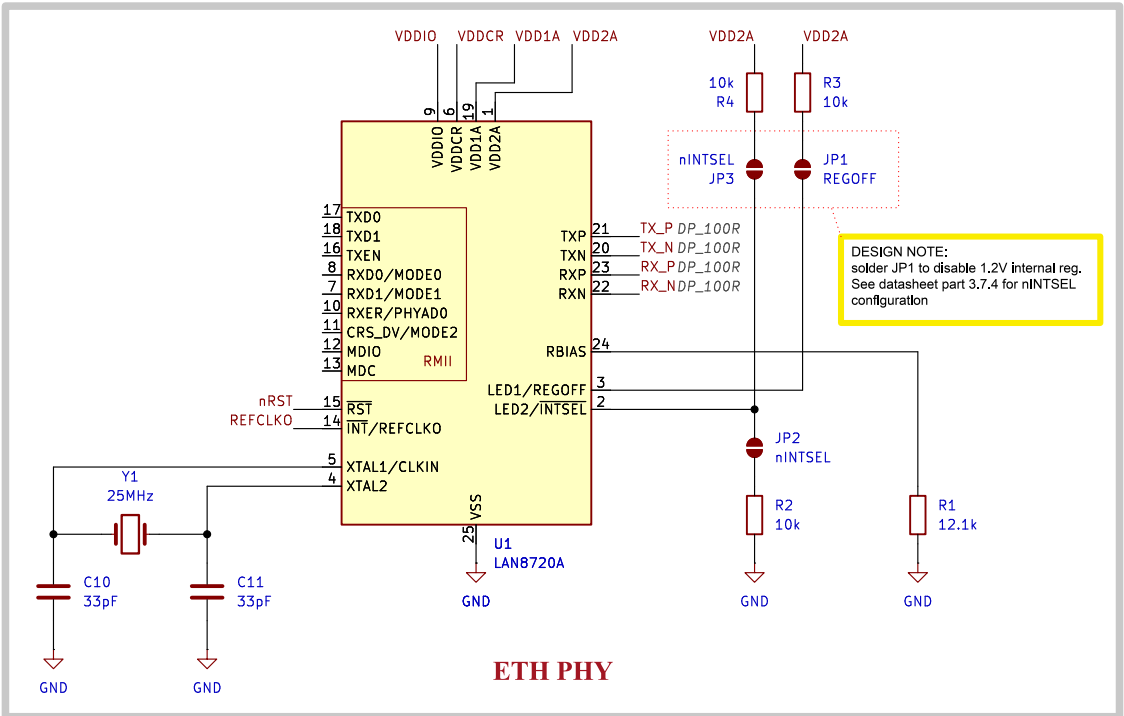
Page 5

File: Section B - Title B.kicad\_sch

Description

	Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 0fae436
		Board Name: LAN8742A-breakout-board		Project Name: LAN8742A Breakout	
	Sheet Title: Project Architecture	File Name: Project Architecture.kicad_sch	Designer: Tropikej	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path: /Project Architecture/		Reviewer:	Size: A3	Sheet: 3 of 7

# [4] Sheet Title A

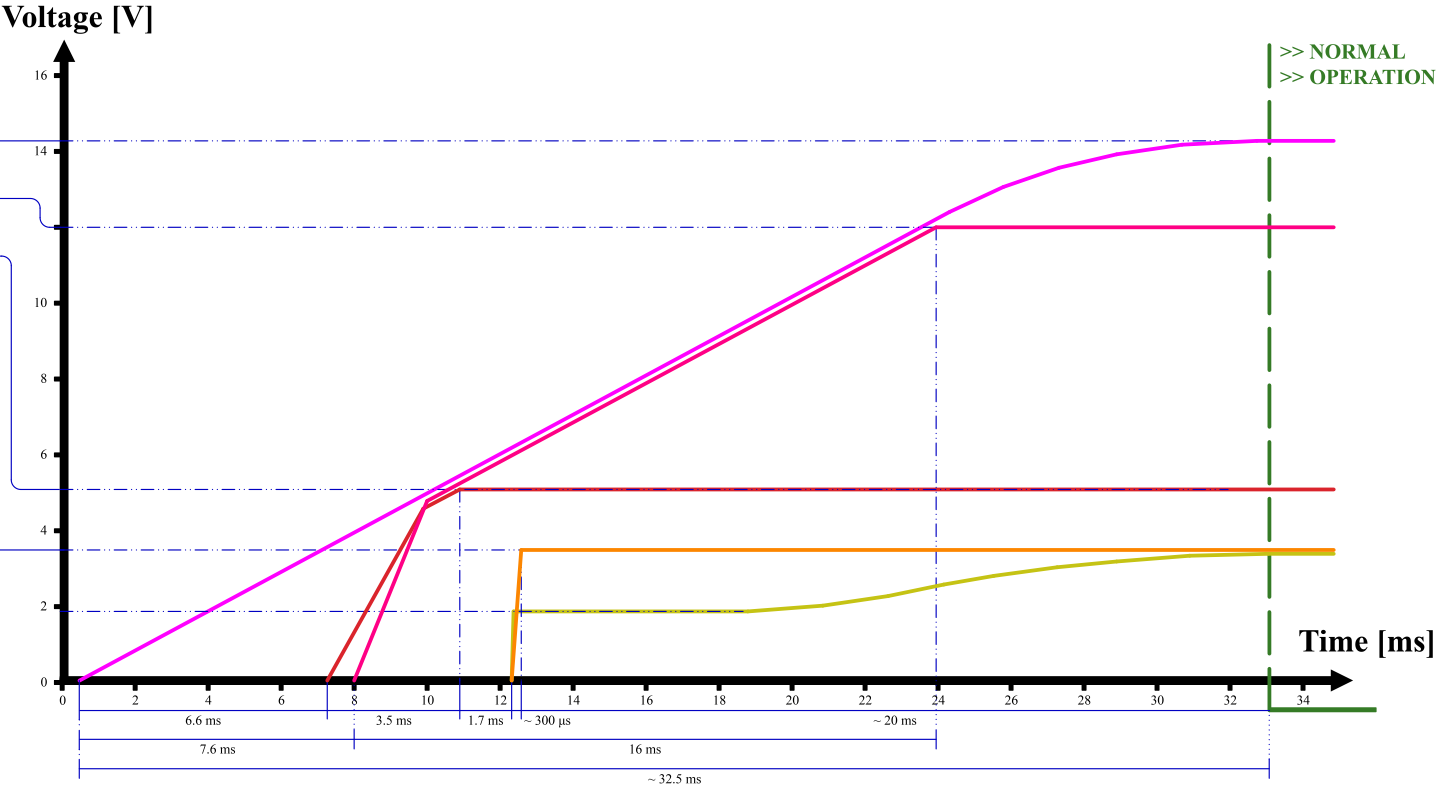


Comments: AN5346 STM32G474 Datasheet p.81 J. Pieper ADC investigation	Company: PatapimLabs		Variant: DRAFT	Git Hash: 0fae436
	Board Name: LAN8742A-breakout-board		Project Name: LAN8742A Breakout	
	Sheet Title: Sheet Title A	File Name: Section A - Title A.kicad_sch	Designer: Tropikej	Date: 2025-01-12
Sheet Path: /Project Architecture/Section A - Title A/		Reviewer:	Size: A4	Revision: + (Unreleased)
			Sheet: 4 of 7	

[5] Sheet Title B															
<div></div> <div>DESIGN NOTE: blabla</div> <div>DESIGN NOTE: blabla</div> <div>LAYOUT NOTE: blabla</div> <div>Block Description</div>			<div>Block Description</div>				<div></div>								
										<div></div>					
			<div>Block Description</div>												
			<div>Block Description</div>							<div>Block Description</div>					
<div>Block Description</div>			<div>Block Description</div>		<div>Block Description</div>		<div>Block Description</div>								
							Comments:			Company:		Variant:	Git Hash:		
							References:			PatapimLabs		DRAFT	0fae436		
							Flexible I/O worked examples			Board Name:		Project Name:			
							Flexible I/O source configuration			LAN8742A-breakout-board		LAN8742A Breakout			
Sheet Title:			File Name:		Designer:	Date:	Revision:								
Sheet Title B			Section B - Ttle B.kicad_sch		Tropikej	2025-01-12	+ (Unreleased)								
Sheet Path:					Reviewer:		Size:	Sheet:							
/Project Architecture/Section B - Title B/							A3	5 of 7							

[6] Power - Sequencing

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



	Comments:	Company: PatapimLabs	Variant: DRAFT	Git Hash: 0fae436
		Board Name: LAN8742A-breakout-board	Project Name: LAN8742A Breakout	
	Sheet Title: Power - Sequencing	File Name: Power - Sequencing.kicad_sch	Designer: Tropikej	Date: 2025-01-12
	Sheet Path: /Power - Sequencing/	Reviewer:	Size: A4	Revision: + (Unreleased)
				Sheet: 6 of 7

# [7] Revision History

	Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 0fae436
		Board Name: LAN8742A-breakout-board		Project Name: LAN8742A Breakout	
	Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: Tropikej	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path: /Revision History/		Reviewer:	Size: A4	Sheet: 7 of 7