LAN8742A-breakout-board

Variant: DRAFT

2025-10-05

Rev + (Unreleased)

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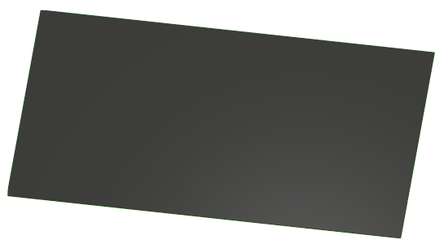
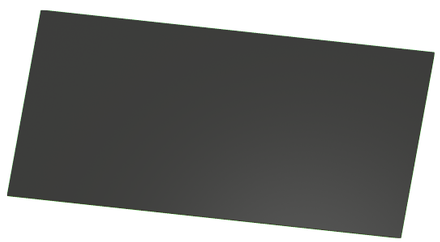
TOP VIEW



BOTTOM VIEW



NOTES

Comment

Not fitted components are marked as ✗

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.

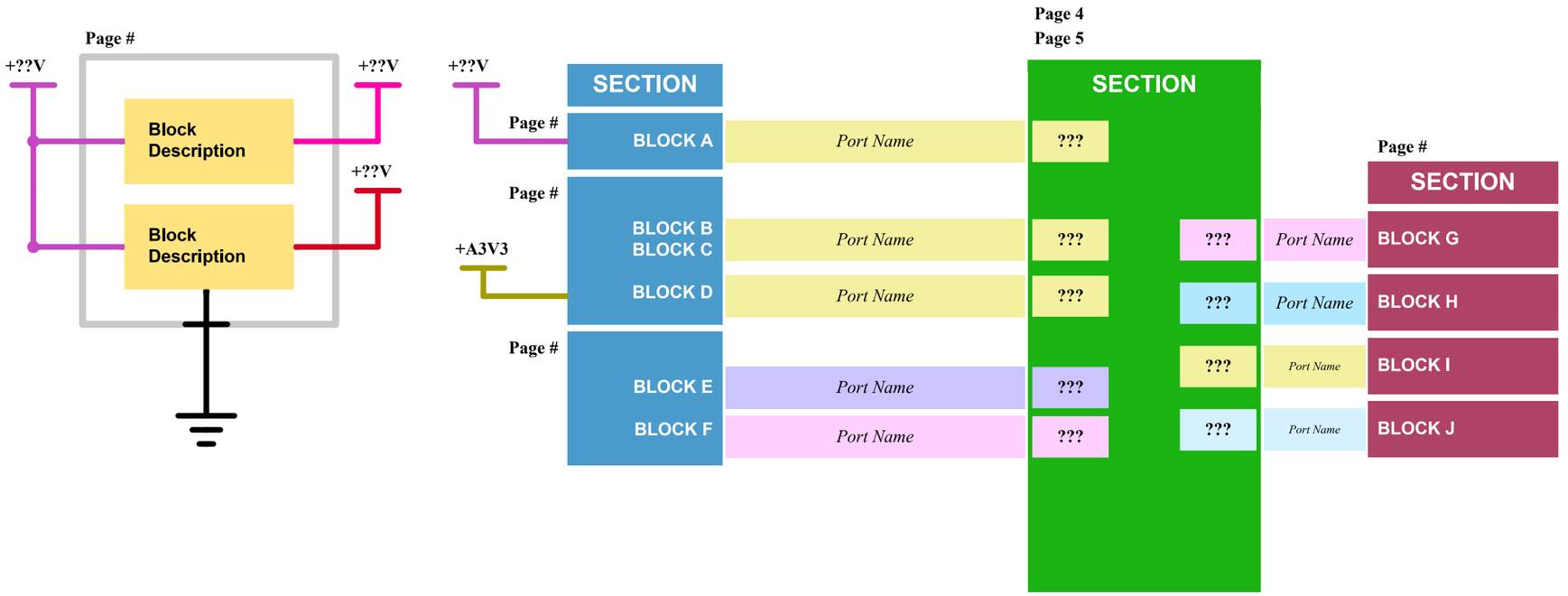
DESIGN NOTE: Example text for cautionary design notes.

DESIGN NOTE: Example text for critical design notes.

LAYOUT NOTE: Example text for critical layout guidelines.

Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 51efe4c
	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

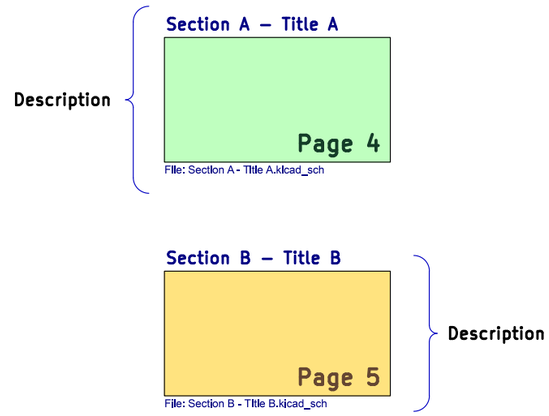


Target specifications:

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

Comments:	Company: **PatapimLabs**		Variant: DRAFT	Git Hash: 51efe4c
	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



Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 51efe4c
	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

LAYOUT NOTE:
blablabla

DESIGN NOTE:
blablabla

Block Description

Comments: AN5346 STM32G474 Datasheet p.81 J. Pieper ADC investigation	Company: **PatapimLabs**		Variant: DRAFT	Git Hash: 51efe4c
	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	Revision: + (Unreleased)
Sheet Path: /Project Architecture/Section A - Title A/		Reviewer:	Size: **A4**	Sheet: **4** of **7**

[5] Sheet Title B

DESIGN NOTE:
blabla

DESIGN NOTE:
blabla

LAYOUT NOTE:
blabla

Block Description

Block Description

Block Description

Block Description

Block Description

Block Description

Block Description

Block Description

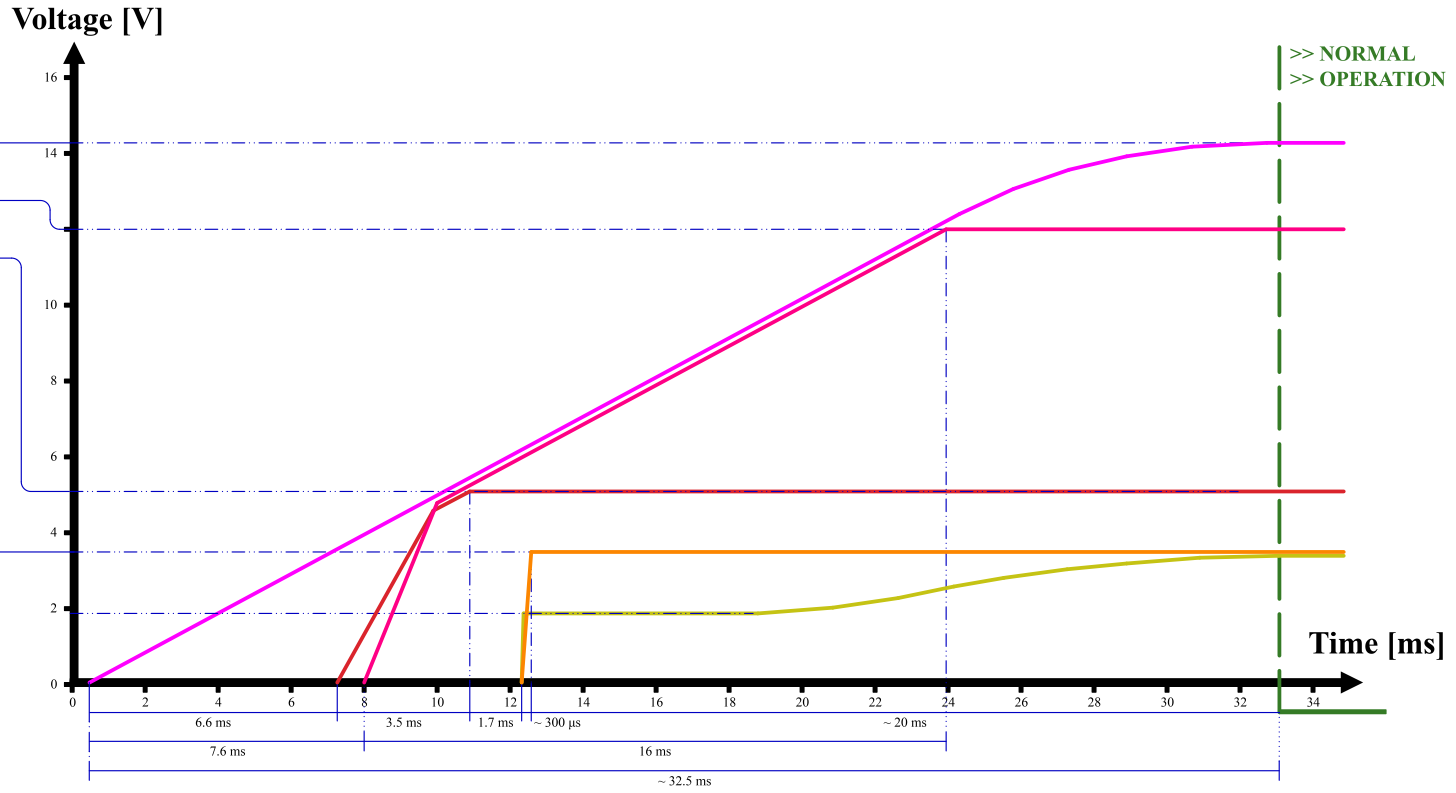
Block Description

Block Description

Comments: **References:** Flexible I/O worked examples Flexible I/O source configuration	Company: **PatapimLabs**		Variant: DRAFT	Git Hash: 51efe4c
	Board Name: **LAN8742A-breakout-board**		Project Name: **LAN8742A Breakout**	
Sheet Title: Sheet Title B	File Name: Section B - TItle B.kicad_sch	Designer: Tropikej	Date: 2025-01-12	Revision: + (Unreleased)
Sheet Path: /Project Architecture/Section B - Title B/		Reviewer:	Size: **A3**	Sheet: **5** of **7**

[6] Power - Sequencing

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



Comments:	Company: PatapimLabs		Variant: DRAFT	Git Hash: 51efe4c
	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	Revision: + (Unreleased)
Sheet Path: /Power - Sequencing/		Reviewer:	Size: A4	Sheet: 6 of 7

[7] Revision History

Comments:	Company: **PatapimLabs**		Variant: DRAFT	Git Hash: 51efe4c
	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**