

# LAN8742A-breakout-board

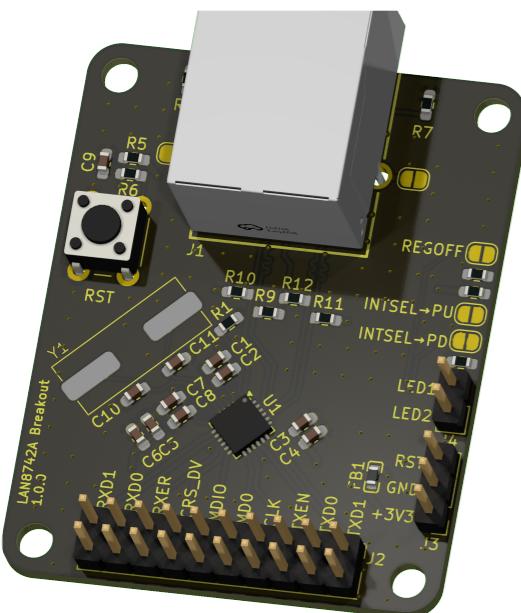
2025-10-09

# Variant: PRELIMINARY

# Rev + (Unreleased)

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TOP VIEW



## DESIGN CONSIDERATIONS

**DESIGN NOTE:**  
Example text for  
informational design  
notes.

## DESIGN NOTE:

Example text for debug notes.

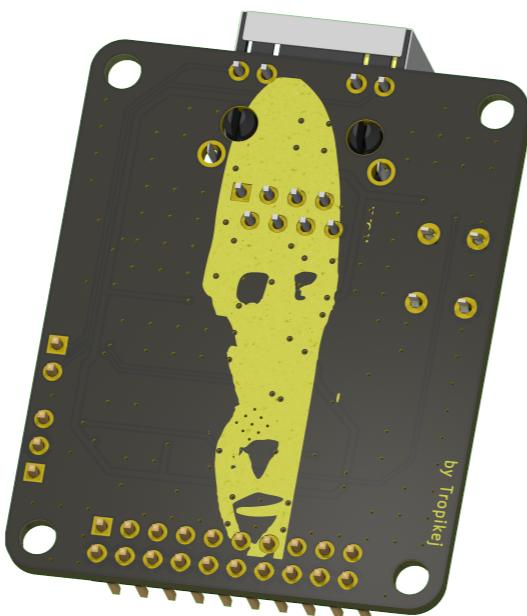
**DESIGN NOTE:**  
Example text for  
cautionary design  
notes.

## DESIGN NOTE: Example text for critical design notes.

## LAYOUT NOTES

Example text critical layout guidelines.

## 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.

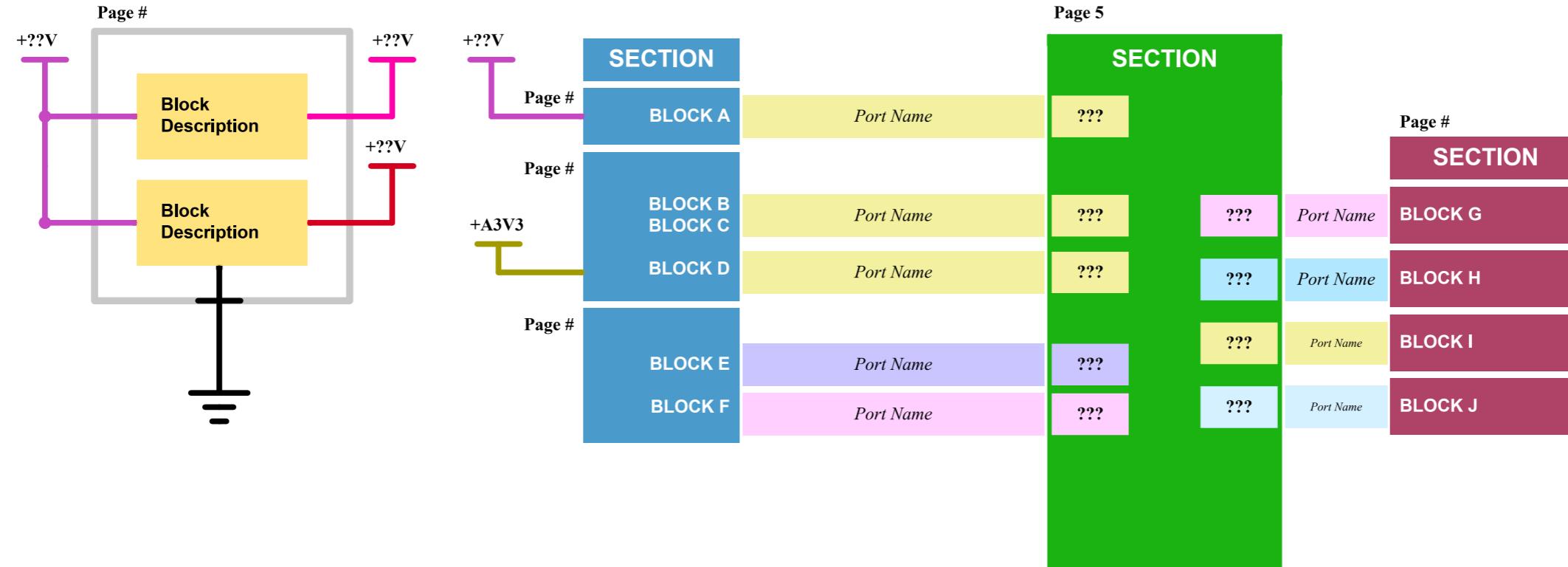
**RELEASED - A board with this schematic has been sent to production.**

# Date: 09 Oct 2025

Date: 09 Oct 2023

|  |                  |   |   |  |
|--|------------------|---|---|--|
|  | Comments:        | Company:<br><b>PatapimLabs</b>                | Variant:<br>PRELIMINARY                   | Git Hash:<br>0fae436                         |
|  |                  | Board Name:<br><b>LAN8742A-breakout-board</b> | Project Name:<br><b>LAN8742A Breakout</b> |  |
|  | Sheet Title:     | File Name:<br>LAN8742A-breakout.kicad_sch     | Designer:<br>Tropikej                     | Date: 2025-01-12<br>Revision: + (Unreleased) |
|  | Sheet Path:<br>/ | Reviewer:                                     | Size:<br><b>A3</b>                        | Sheet:<br><b>1 of 6</b>                      |

# [2] Block Diagram

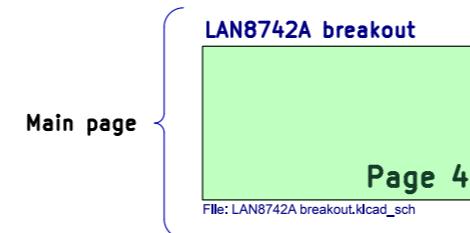


## Target specifications:

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

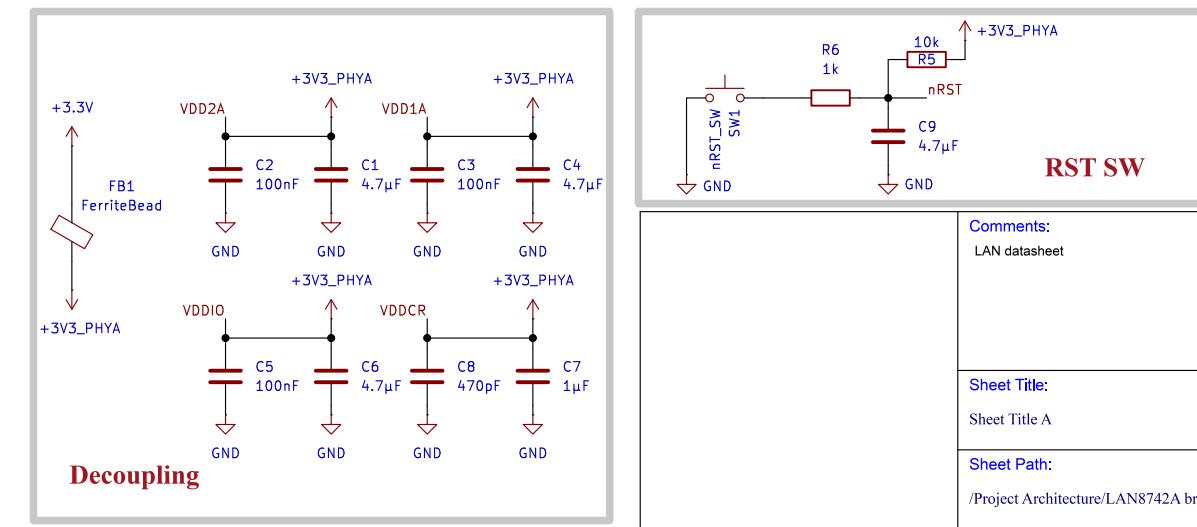
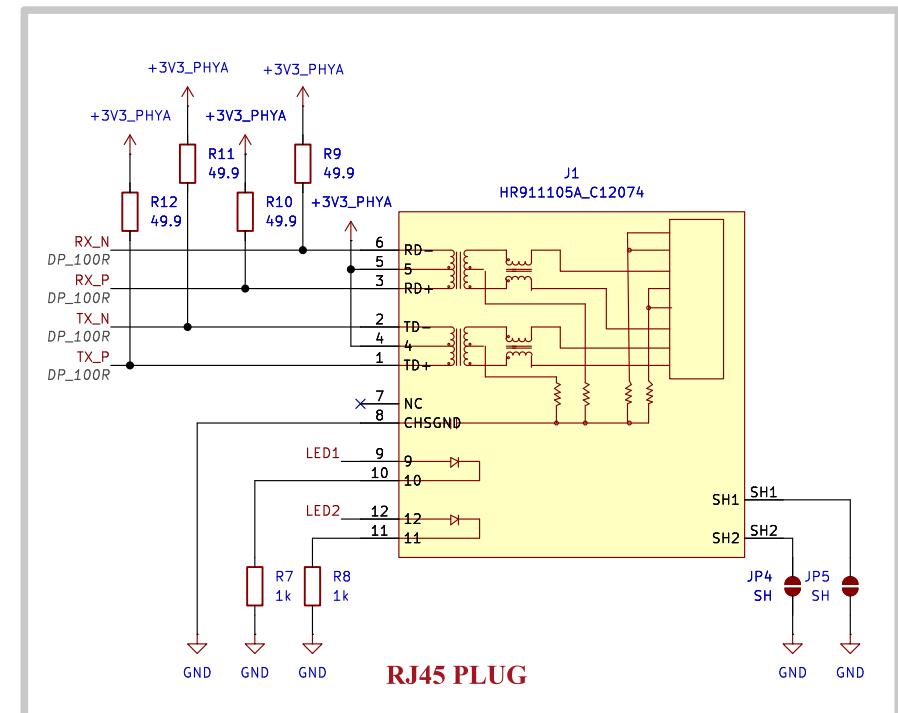
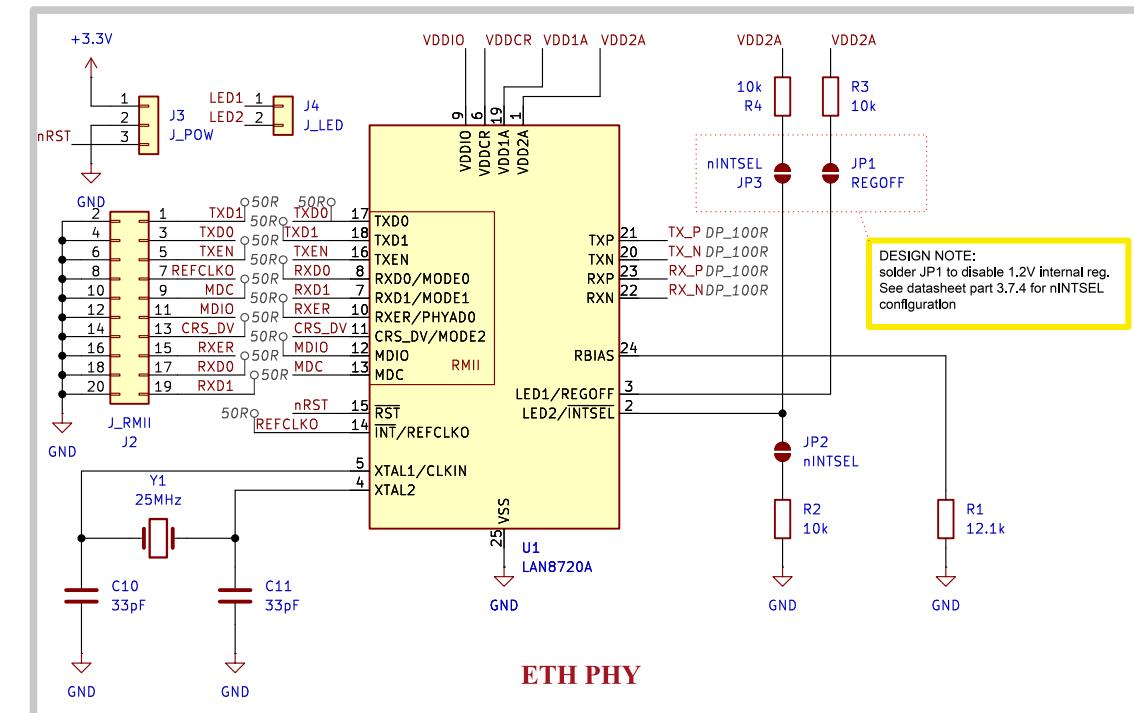
|  |   |   |                         |   |
|--|---|---|-------------------------|---|
|  | Comments:                                     | Company:<br>PatapimLabs                   | Variant:<br>PRELIMINARY | Git Hash:<br>0fae436                          |
|  | Board Name:<br><b>LAN8742A-breakout-board</b> | Project Name:<br><b>LAN8742A Breakout</b> |                         |   |
|  | Sheet Title:<br>Block Diagram                 | File Name:<br>Block Diagram.kicad_sch     | Designer:<br>Tropikej   | Date:<br>2025-01-12<br>+ (Unreleased)         |
|  | Sheet Path:<br>/Block Diagram/                | Reviewer:                                 |                         | Size:<br><b>A3</b><br>Sheet:<br><b>2 of 6</b> |

# [3] Project Architecture



|  |   |  |                         |                                       |
|--|---|--|-------------------------|---------------------------------------|
|  | Comments:                                     | Company:<br>PatapimLabs                      | Variant:<br>PRELIMINARY | Git Hash:<br>0fae436                  |
|  | Board Name:<br><b>LAN8742A-breakout-board</b> | Project Name:<br><b>LAN8742A Breakout</b>    |                         |                                       |
|  | Sheet Title:<br>Project Architecture          | File Name:<br>Project Architecture.kicad_sch | Designer:<br>Tropikej   | Date:<br>2025-01-12<br>+ (Unreleased) |
|  | Sheet Path:<br>/Project Architecture/         | Reviewer:                                    | Size:<br><b>A3</b>      | Sheet:<br><b>3 of 6</b>               |

# [4] Sheet Title A

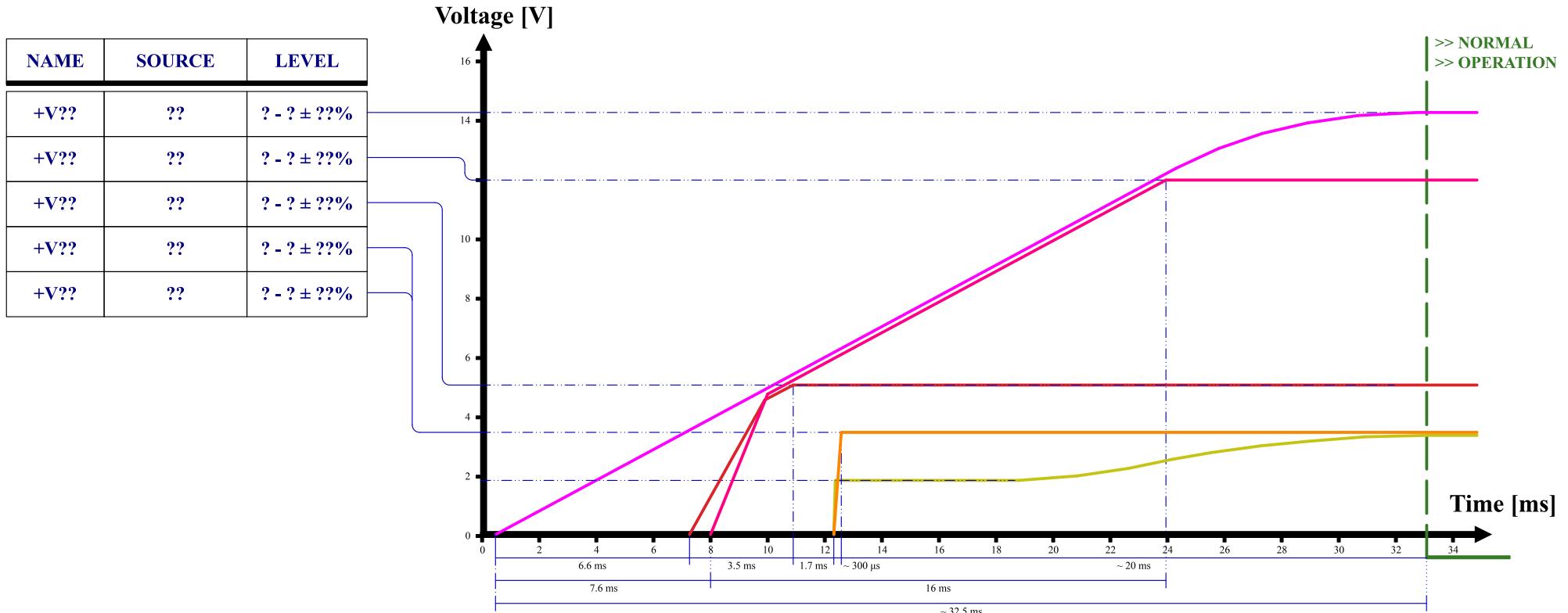


|   |   |                         |                                |
|---|---|-------------------------|--------------------------------|
| Comments:<br>LAN datasheet                              | Company:<br>PatapimLabs                   | Variant:<br>PRELIMINARY | Git Hash:<br>0fae436           |
| Board Name:<br><b>LAN8742A-breakout-board</b>           | Project Name:<br><b>LAN8742A Breakout</b> |                         |                                |
| Sheet Title:<br>Sheet Title A                           | File Name:<br>LAN8742A breakout.kicad_sch | Designer:<br>Tropikej   | Date:<br>2025-01-12            |
| Sheet Path:<br>/Project Architecture/LAN8742A breakout/ | Revision:<br>+ (Unreleased)               |                         |                                |
|   | Reviewer:                                 | Size:<br><b>A4</b>      | Sheet:<br><b>4</b> of <b>6</b> |



# [6] Power - Sequencing

A



B

C

A

B

C

D

1

|  |   |   |  |                         |                                |   |
|--|---|---|--|-------------------------|--------------------------------|---|
|  | Comments:   | Company:<br>PatapimLabs                       |  | Variant:<br>PRELIMINARY | Git Hash:<br>0fae436           |   |
|  |   | Board Name:<br><b>LAN8742A-breakout-board</b> |  |                         |                                | Project Name:<br><b>LAN8742A Breakout</b> |
|  |   | Sheet Title:<br>Power - Sequencing            | File Name:<br>Power - Sequencing.kicad_sch | Designer:<br>Tropikej   | Date:<br>2025-01-12            | Revision:<br>+ (Unreleased)               |
|  | Sheet Path:<br><a href="#">/Power - Sequencing/</a> | Reviewer:                                     |  | Size:<br><b>A4</b>      | Sheet:<br><b>6</b> of <b>6</b> |   |

## [7] Revision History

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