

Multi-Board Manager

3 board(s)

Project: SWIFT_deployment_board

ⓘ All boards share the same schematic. Edits made anywhere are instantly reflected everywhere.

ⓘ Filter boards...

ⓘ 2 board(s) open in KiCad

Status	Board	Components	Ports	Description	Path
⌘ Open	Board1	93	2	Bottom of stack, contains MCU stage and logic arbitration (MUX) with local 3v3 power gen. Contains safety FSM with 24v auto-detection and latching mechanism for battery. 3 additional connectors to flash MCUs.	boards/Board1/Board1.kicad_pcb
⌘ Open	Board2	56	4	Middle board, contains deploy stage with buck, boost and channel arbitration (MOSFETS). No additional connectors.	boards/Board2/Board2.kicad_pcb
✓	Board3	111	1	Top board, contains battery charger, passivation logic. Also has RBF to connect battery to system (remove to connect) and RBF to disable TRIGGER_IDD (RBF present = cannot trigger device). Has two ADM1270 for power protection of VBAT and 24V from SAT.	boards/Board3/Board3.kicad_pcb

+ New

✗ Remove

↗ Open

↻ Update

≣ Ports

✖ Description

♥ Health

≂ Compare

✓ Check All

☰ Status

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Buck

2 board(s) open in KiCad

Status	Board	Components	Ports	Description	Path
✖ Open	Board2	56	4	Middle board, contains deploy stage with buck, boost and channel arbitration (MOSFETS). No additional connectors.	boards/Board2/Board2.kicad_pcb

+ New

✖ Remove

↗ Open

↻ Update

⠇ Ports

✖ Description

♥ Health

= Compare

✓ Check All

☰ Status

Multi-Board Manager

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Create New Board

ⓘ Filter boards... Ⓛ 2 board(s)

Status	Board	Components
⌘ Open	Board1	93
⌘ Open	Board2	56
✓	Board3	111

New Sub-Board

Create a PCB that shares this project's schematic

Board Name

Description

ⓘ The new board will share the project schematic.
Use Update to assign components.

Cancel

Create Board

Path
boards/Board1/Board1.kicad_pcb
boards/Board2/Board2.kicad_pcb
boards/Board3/Board3.kicad_pcb

+ New

✖ Remove

↗ Open

↻ Update

⠇ Ports

✖ Description

♥ Health

= Compare

✓ Check All

≡ Status

● Opened 'Board1'

Close

Multi-Board Manager

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Filter boards...

2 board(s)

Status	Board	Components
* Open	Board1	93
* Open	Board2	56
✓	Board3	111

Manage Ports — Board2

Inter-Board Ports

Define electrical connection points between boards

Port Name	Connected Net	Edge	Position
CAN+	/Project Architecture/C...	Left	20%
CAN-	/Project Architecture/C...	Left	10%
GND	GND	Right	50%
TRIGGER_PRE_RBF	TRIGGER_PRE_RBF	Left	0%

+ Add Port Edit Remove

Cancel Apply Changes

Path
ds/Board1/Board1.kicad_pcb
ds/Board2/Board2.kicad_pcb
ds/Board3/Board3.kicad_pcb

+ New × Remove ↗ Open ⌂ Update ⚡ Ports 🔍 Description ❤ Health ⚙ Compare ✓ Check All ⏹ Status

● Opened 'Board1'

Close

Multi-Board Manager

3 board(s)

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✖ Open	Board1	93
✖ Open	Board2	56
✓	Board3	111

Manage Ports — Board2

Port Configuration

Port Settings

Define an inter-board connection point

Port Name: CAN-

Net Name: /Project Architecture/Control/MCU/CAN-

Board Edge: Right

Position: 50%

Cancel Save

Cancel Apply Changes

+

Path
.../Board1/Board1.kicad_pcb
.../Board2/Board2.kicad_pcb
.../Board3/Board3.kicad_pcb

+ New x Remove | ↗ Open ⌂ Update ⌂ Ports ⌂ Description | ❤ Health ⌂ Compare ✓ Check All ⌂ Status

Multi-Board Manager

Project: SWIFT_deployment_board

3 board(s)

- All boards share the same schematic. Edits made anywhere are instantly reflected everywhere.

(2 board(s) open in KiCad)

Status	Board	Components
* Open	Board1	93
* Open	Board2	56
✓	Board3	111

Edit Board Description

Edit description for 'Board3':

Top board, contains battery charger, passivation logic. Also has RBF to connect battery to system (remove to connect) and RBF to disable TRIGGER_IDD (RBF present = cannot trigger device). Has two ADM1270 for power protection of VBAT and 24V from SAT.

OK

Cancel

Path
boards/Board1/Board1.kicad_pcb
boards/Board2/Board2.kicad_pcb
boards/Board3/Board3.kicad_pcb

+ New × Remove ↗ Open ⚙ Update ⚡ Ports 🔍 Description ❤ Health ⚛ Compare ✓ Check All ⚡ Status

• 3 board(s), 260 component(s) placed

Close

Multi-Board Manager

Project: SWIFT_deployment_board

3 board(s)

ⓘ All boards share the same schematic

Filter boards...

Status	Board	
⌘ Open	Board1	93
⌘ Open	Board2	56
✓	Board3	111

Board Health Report



✓ All Boards Healthy

Project: SWIFT_deployment_board • Boards: 3 • ✓ 3 △ 0 × 0

- ⊖ ✓ ⚡ Board1
 - Components: 151
 - Ports: 2
 - Modified: 2026-01-07 16:40
 - Currently open in KiCad
- ⊖ ✓ ⚡ Board2
 - Components: 63
 - Ports: 4
 - Modified: 2026-01-07 16:46
 - Currently open in KiCad
- ⊖ ✓ ⚡ Board3
 - Components: 111
 - Ports: 1
 - Modified: 2026-01-07 01:06

Path
/Board1.kicad_pcb
/Board2.kicad_pcb
/Board3.kicad_pcb

Close

+ New

x Remove

↗ Open

↻ Update

≒ Ports

Description

♥ Health

= Compare

✓ Check All

☰ Status

• Checking health...

Close

Multi-Board Manager

Project: SWIFT_deployment_board

3 board(s)

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Compare Boards

Status	Board	Components
✖ Open	Board1	93
✖ Open	Board2	56
✓	Board3	111

Board Comparison

Compare component placement between two boards

Board 1:

Board1

vs

Board 2:

Board2

= Compare

== Comparison: Board1 vs Board2 ==

Components in Board1: 93

Components in Board2: 56

Common components: 0

— Only in Board1 (93) —

- C1
- C10
- C11
- C12
- C13
- C14
- C15
- C16
- C17
- C18
- C19
- C2

Close

Path
board1/Board1.kicad_pcb
board2/Board2.kicad_pcb
board3/Board3.kicad_pcb

+ New x Remove | > Open ⚙ Update ⚙ Ports ⚙ Description | ❤ Health = Compare ✓ Check All Ⓜ Status

• Ready

Close

Multi-Board Manager

Project: SWIFT_deployment_board

3 board(s)

All boards share the same schedule		
	Filter boards...	
Status	Board	
Open	Board1	93
Open	Board2	56
✓	Board3	111

Connectivity Report



638 Violation(s)

Boards checked: 3 • DRC violations: 638 • Errors: 0

⚠ Board2: 227 violation(s)

56

+ New

Remove

1 Open

1) Update

→ Ports

Description

• Health

≡ Compare

Check All

≡ Status

- 638 violation(s)

[Close](#)

Multi-Board Manager

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3 board(s)

ⓘ All boards share the same schematic. Edits made anywhere are instantly reflected everywhere.

Status	Board	Components
✖ Open	Board1	93
✖ Open	Board2	56
✓	Board3	111

Component Status

Component Placement

Total: 331 • Placed: 260 • Unplaced: 101

- + ✓ Board1 (93 components)
- + ✓ Board2 (56 components)
- ✓ Board3 (111 components)
 - C38
 - C39
 - C40
 - C41
 - C42
 - C43
 - C44
 - C45
 - C46
 - C47
 - C48
 - C50
 - C52
 - C56
 - C57
 - C58



Path

oard1/Board1.kicad_pcb

oard2/Board2.kicad_pcb

oard3/Board3.kicad_pcb

Close**+ New****✖ Remove****↗ Open****↻ Update****≒ Ports****↖ Description****♥ Health****= Compare****✓ Check All****☰ Status**

● 638 violation(s)

Close