Gen-5X
Fighting Board

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Gen-5X Fighting Board

Support USB Interface：

- Sony PlayStation 5 **(ALL PS5 games)**
- Xbox series X|S
- Nintendo Switch
- PC

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Pin Connection Description

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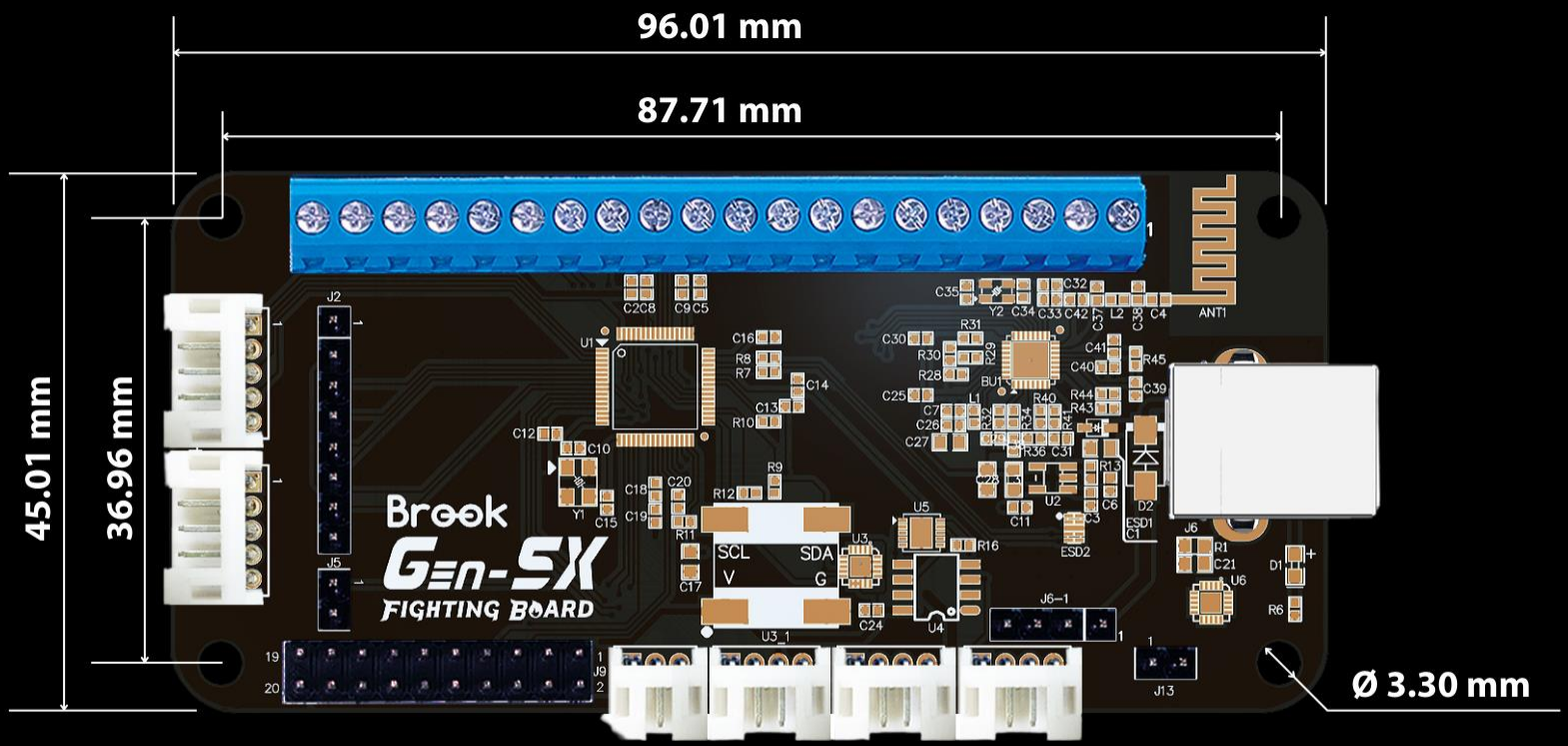
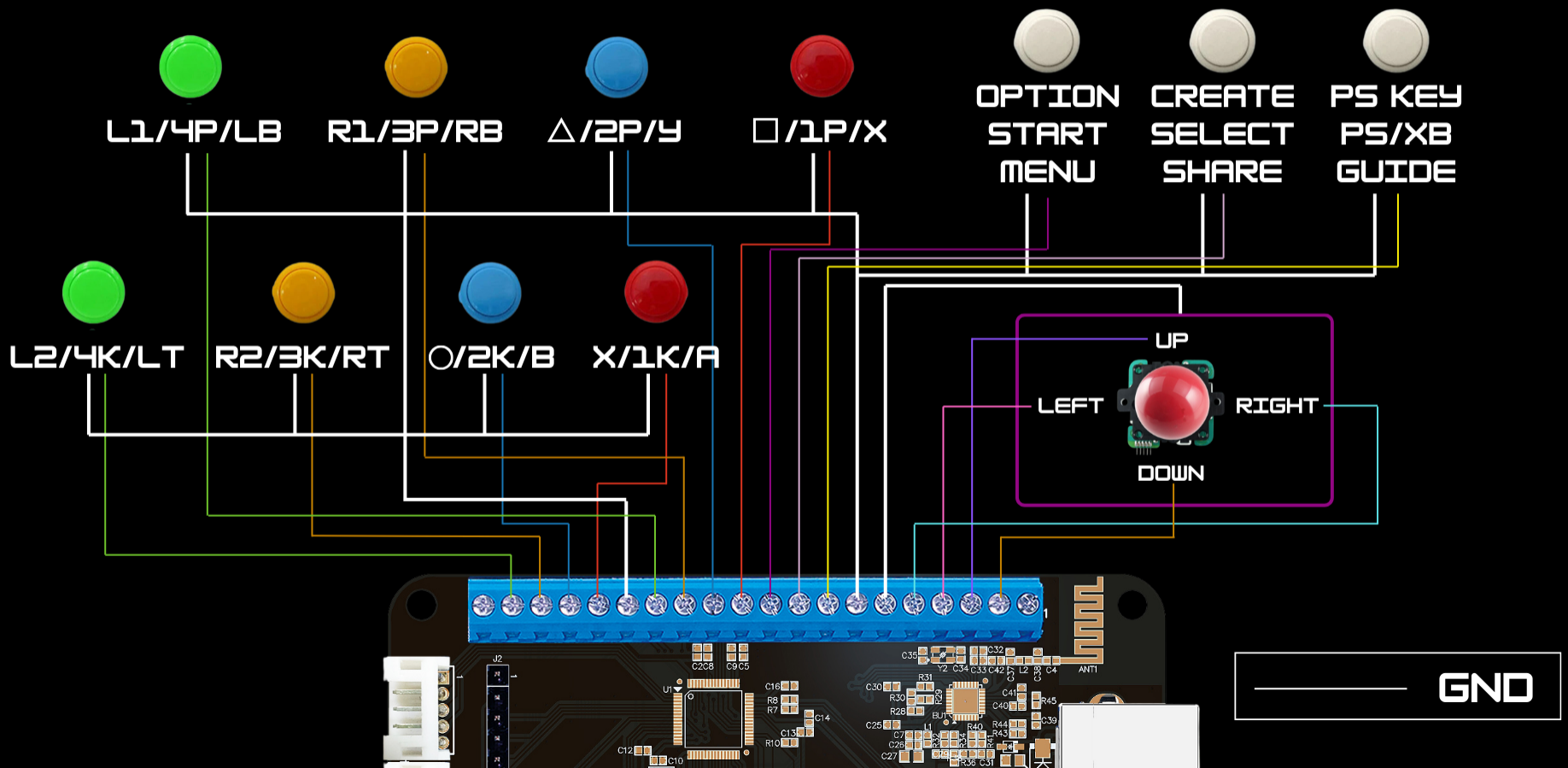


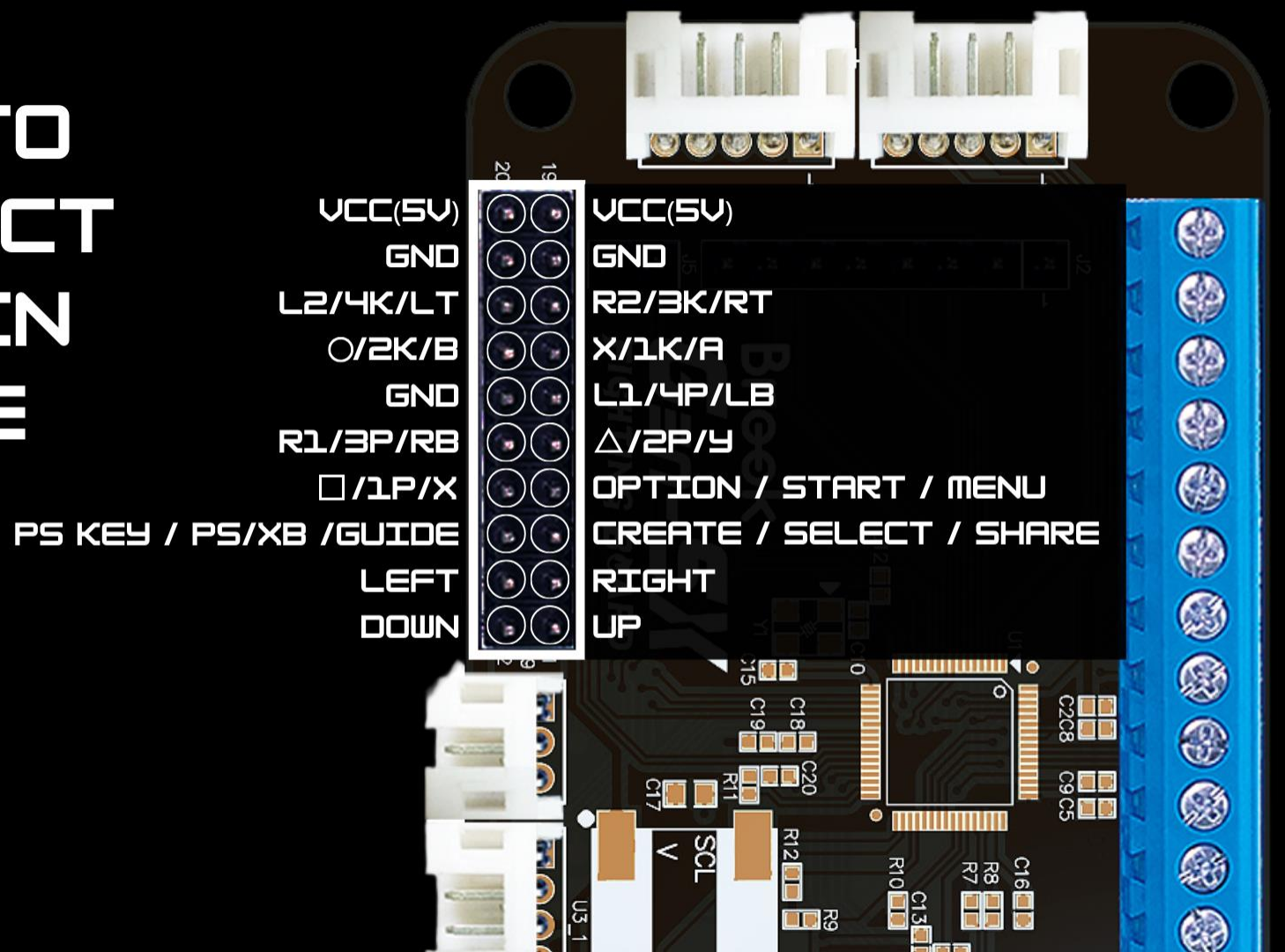
PCB TOP

SIZE : 45.01 X 96.01 MM

HOW TO CONNECT J3 DETAIL

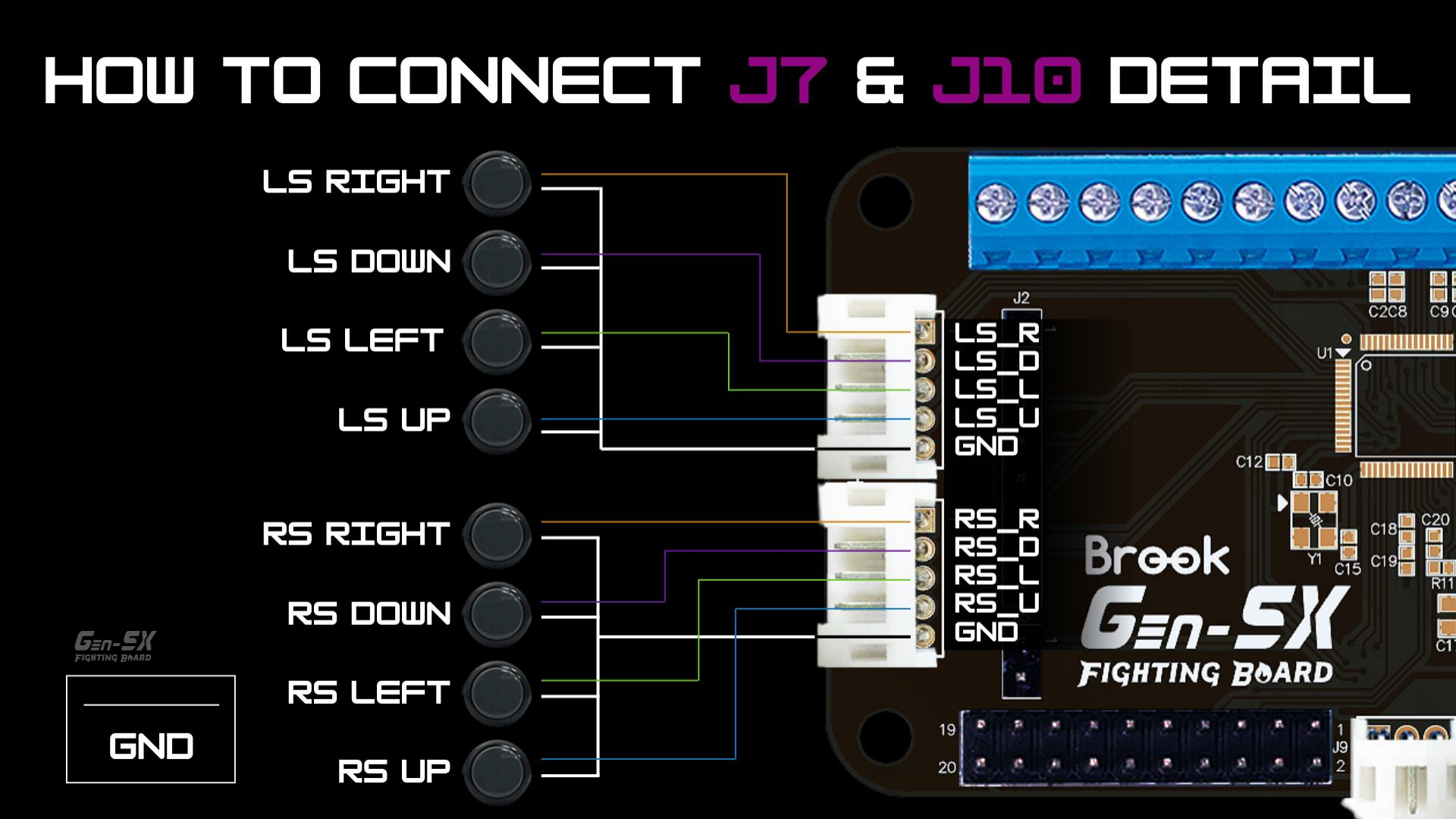


HOW TO CONNECT J9 PIN NAME

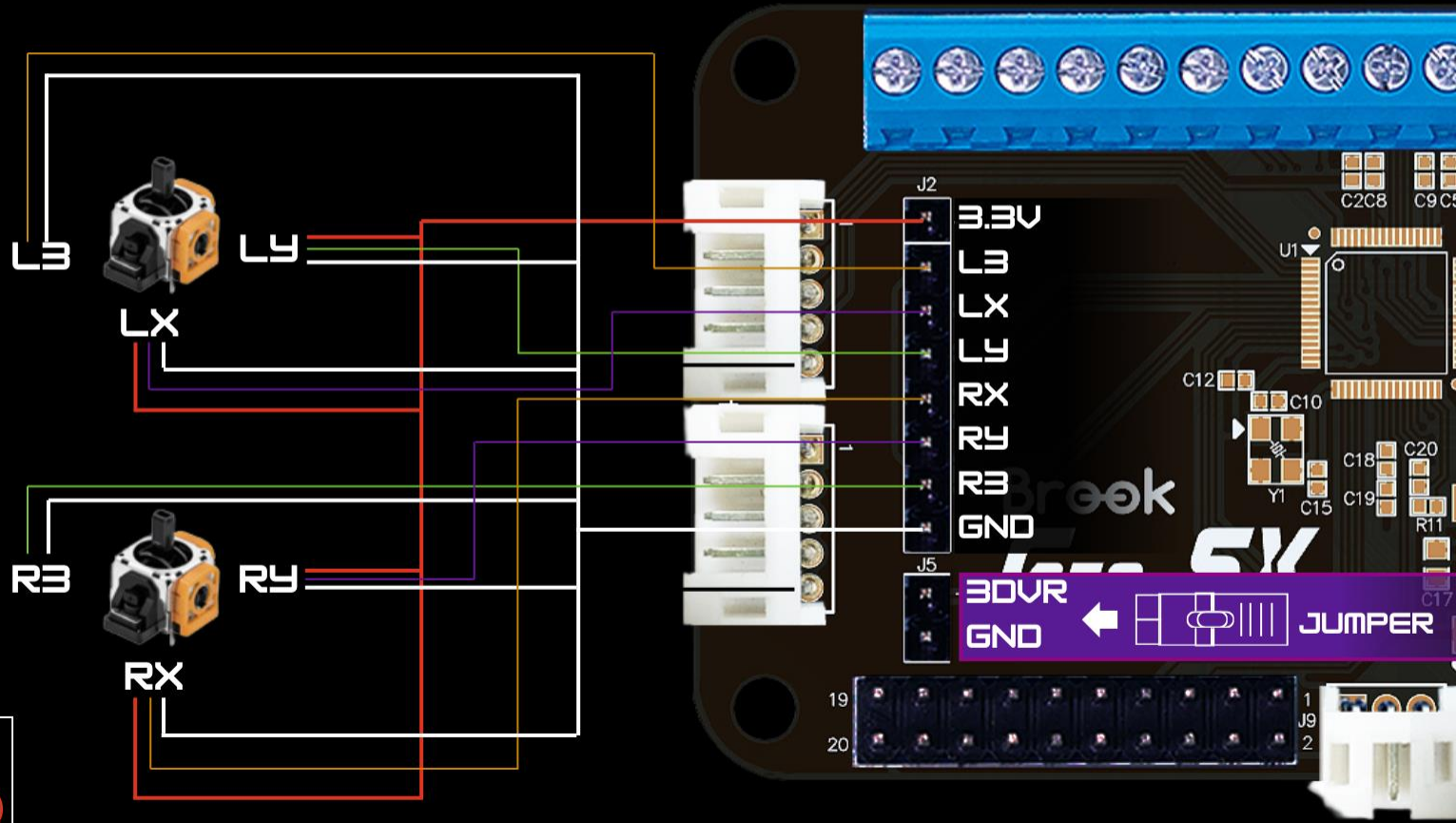


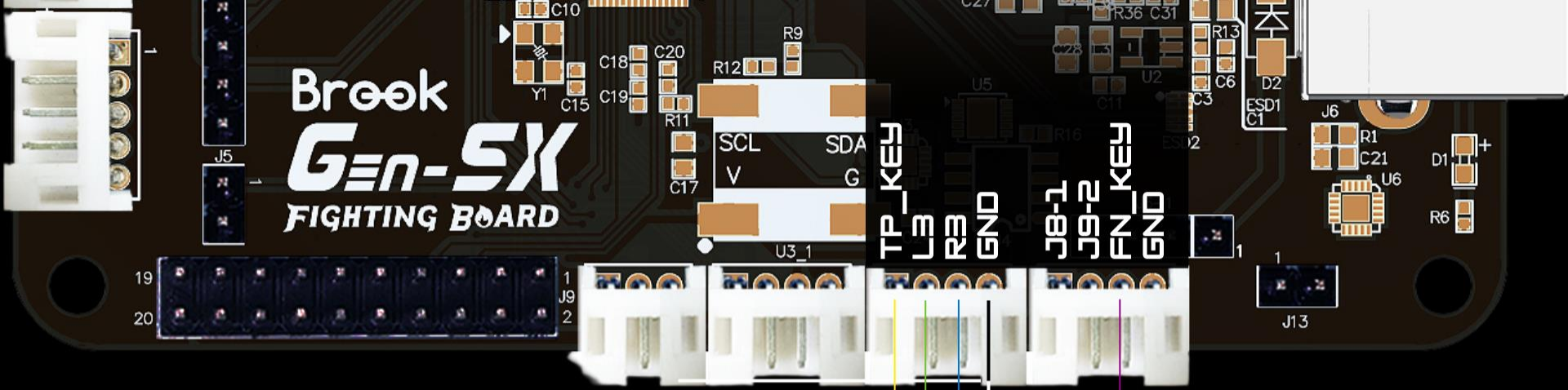
Gen-5X FIGHTING BOARD

HOW TO CONNECT J7 & J10 DETAIL

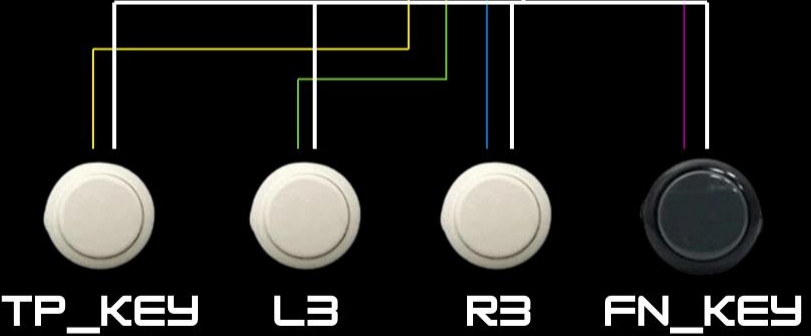


HOW TO CONNECT J2 & J5 DETAIL





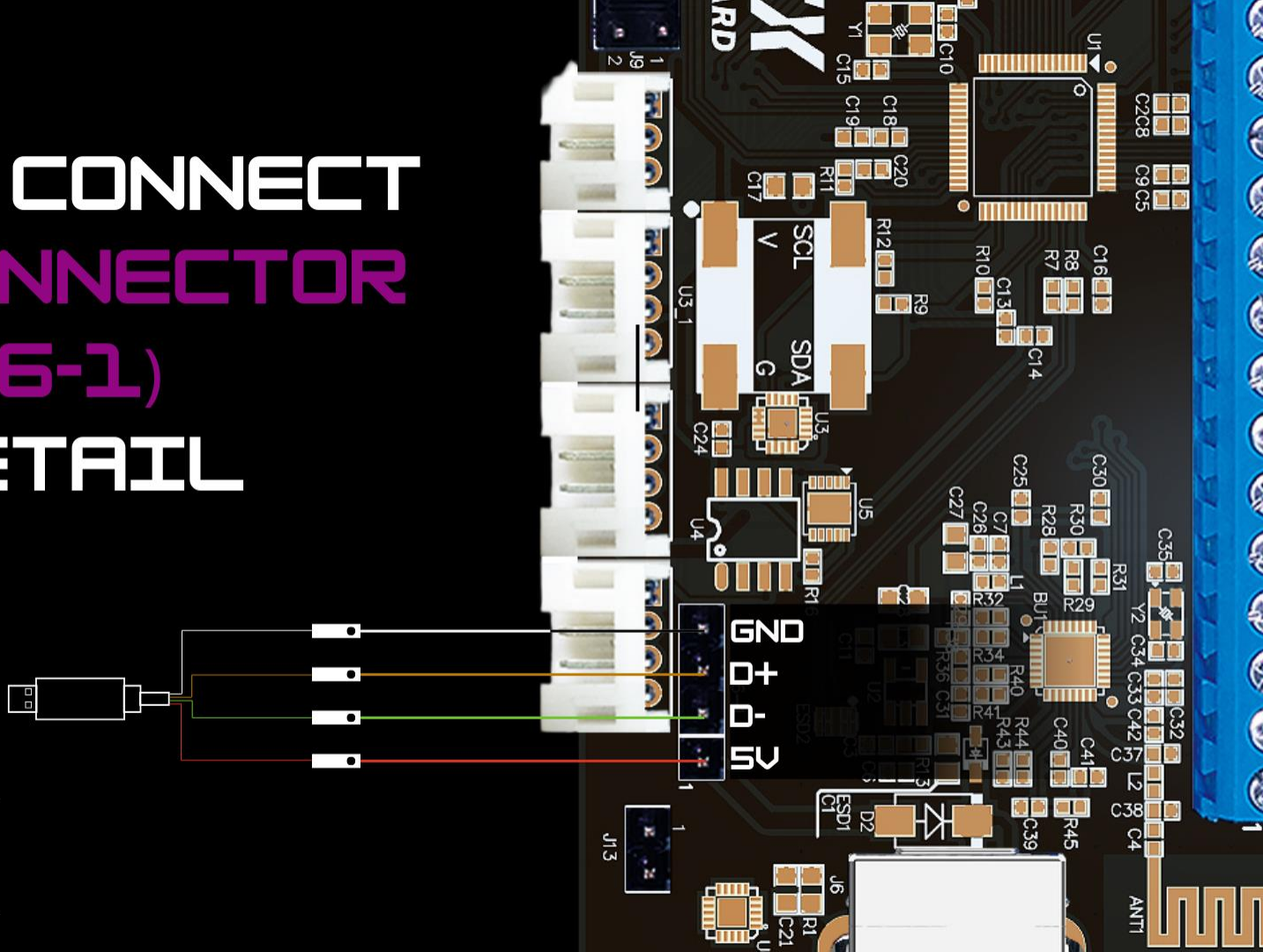
HOW TO CONNECT J4 & J8 DETAIL



*To use Turbo, RGB LED adjustment, and other settings with hotkey operations, it is necessary to connect an external FN key.

GND

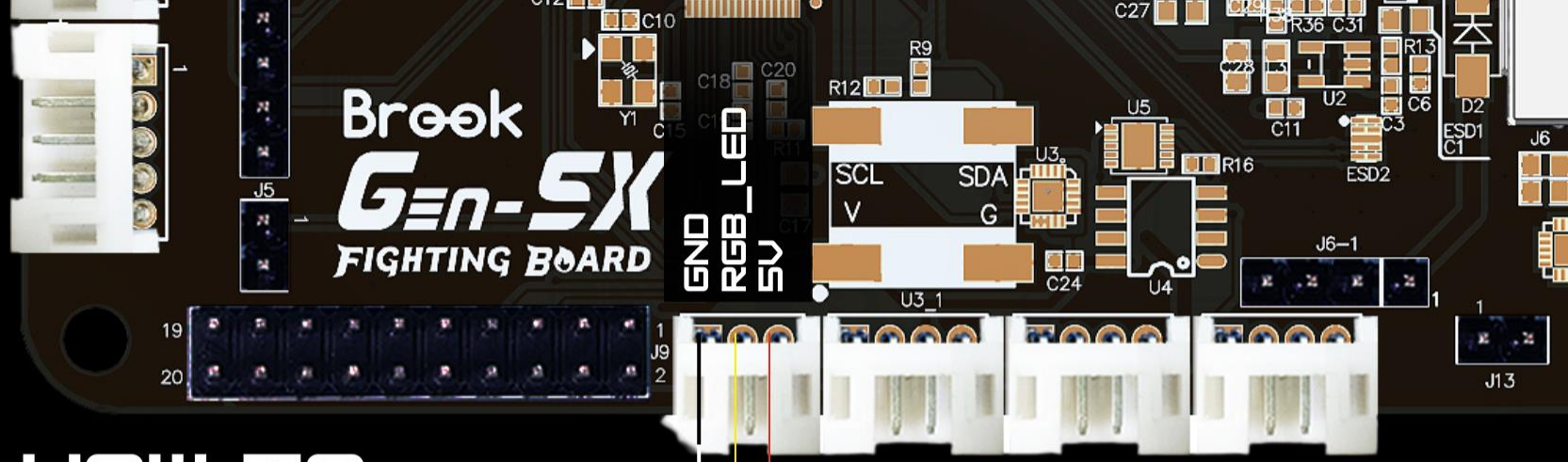
HOW TO CONNECT USB CONNECTOR (J6-1) DETAIL



Gen-SX FIGHTING BOARD

GND

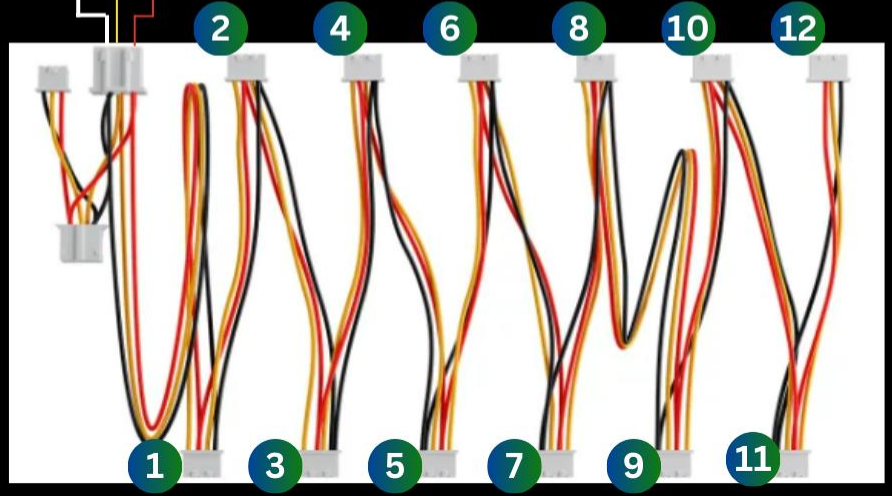
POWER(5V)



HOW TO CONNECT J11 DETAIL

*The order in which the RGB lights on the buttons illuminate will follow the wiring sequence. For example, the first connection will be numbered as 1, and so on.

*Compatible with WS2812B RGB LEDs and requires a daisy-chaining connection



GND

POWER(5V)

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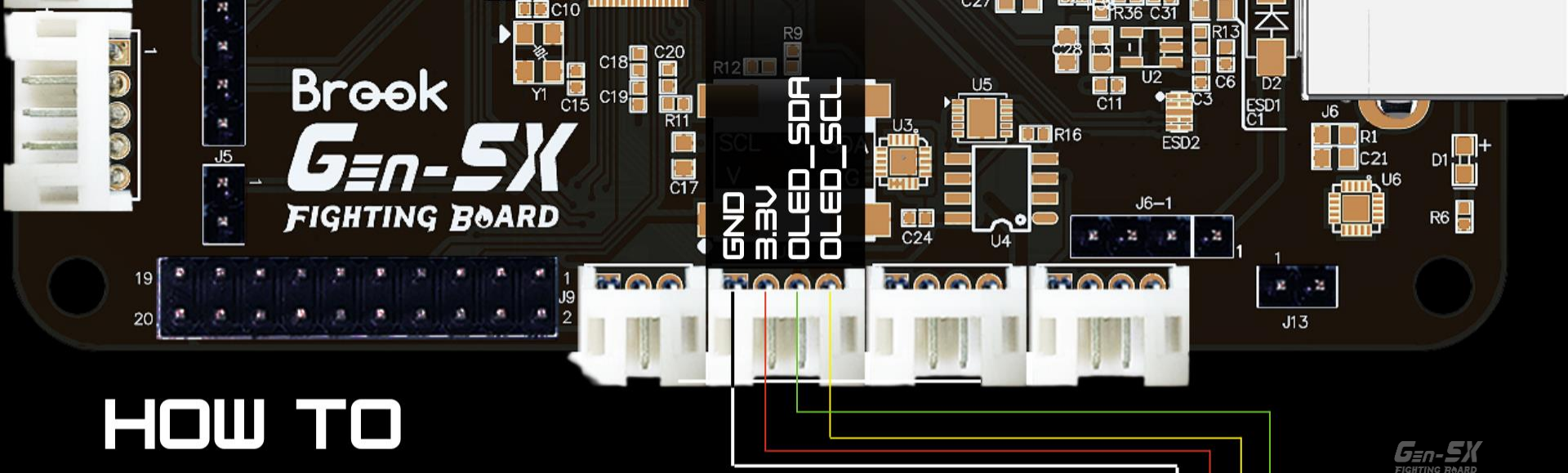


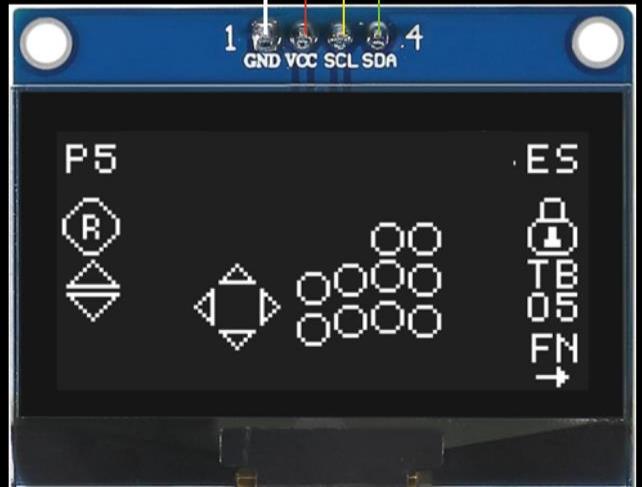
HOW TO CONNECT J12 DETAIL

GND

POWER(3.3V)

General SPEC

VCC：3.3v~5v
SCL：Clock Line
SDA：Data Line
Resolution：128 x 64
Driver IC：SSD 1309,compatible with SSD1306
Interface：I2C Interface



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Function Operation and Configuration Guide.

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Gen-5X Fighting Board

Button Mapping

PCB Define	Sony Playstation 5	Xbox series X/S	Nintendo Switch
Dpad-U	Dpad-U	Dpad-U	Dpad-U
Dpad-D	Dpad-D	Dpad-D	Dpad-D
Dpad-R	Dpad-R	Dpad-R	Dpad-R
Dpad-L	Dpad-L	Dpad-L	Dpad-L
Square	□	X	Y
Triangle	△	Y	X
R1	R1	RB	R
L1	L1	LB	L
Cross	✕	A	B
Circle	○	B	A
R2	R2	RT	ZR
L2	L2	LT	ZL
L3	L3	LTSB	LSB
R3	R3	RTSB	RSB
TP_Key	Touch Key	View	Minus
Option	Option	Menu	Plus
PS_Key	PS key	Guide	Home
Share	Create	Share	Capture
LS_U	LStick-U	LStick-U	LStick-U
LS_D	LStick-D	LStick-D	LStick-D
LS_L	LStick-L	LStick-L	LStick-L
LS_R	LStick-R	LStick-R	LStick-R
RS_U	RStick-U	RStick-U	RStick-U
RS_D	RStick-D	RStick-D	RStick-D
RS_L	RStick-L	RStick-L	RStick-L
RS_R	RStick-R	RStick-R	RStick-R

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Gen-5X Fighting Board

1. Supports Switch controller interface mode
2. Supports four SOCD modes
3. Support stick mapping to LS/DP/RS
4. Support Turbo function
5. Supports Touchpad emulation
6. Supports RGB LED
7. Supports Lock function
8. Supports OLED

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Gen-5X Fighting Board

Supports Switch controller interface mode

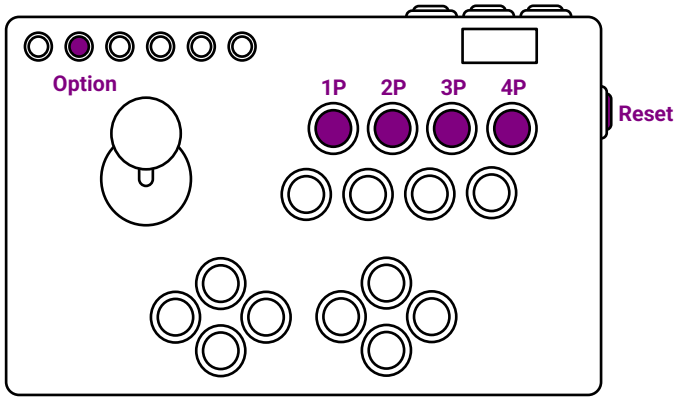
- **Manual Switching**： To manually select a mode, follow these steps

1. Press and hold the desired switch button.
2. Reinsert the device or press the Reset button.

*It will remember the last selected settings.

Switch buttons for each mode：

- 1P(Square)： Sony Playstation 5
- 2P(Triangle)： Xbox series X/S
- 3P(R1)： Nintendo Switch
- 4P(L1)： PC (XID mode)



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Gen-5X Fighting Board

Supports four SOCD modes

- The default setting is Mode 1.
- When you change the SOCD mode, it will be saved automatically.
- Here's how to switch SOCD modes：

	Mode1 Up Priority	Mode2 All Neutral	Mode3 Last Priority	Mode4 ByPass
Mode Switching Instructions	Hold the left button and insert the device or press the Reset button.	Hold the up button and insert the device or press the Reset button.	Hold the down button and insert the device or press the Reset button.	Hold the right button and insert the device or press the Reset button.
←+→	Neutral	Neutral	→	←+→
→+←	Neutral	Neutral	←	→+←
↑+↓	↑	Neutral	↓	↑+↓
↓+↑	↑	Neutral	↑	↓+↑

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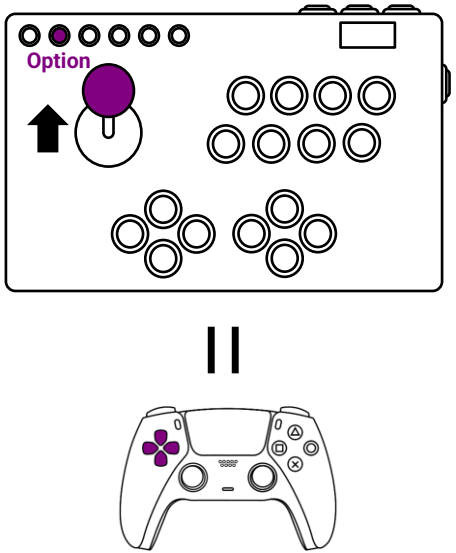
Support stick mapping to LS/DP/RS

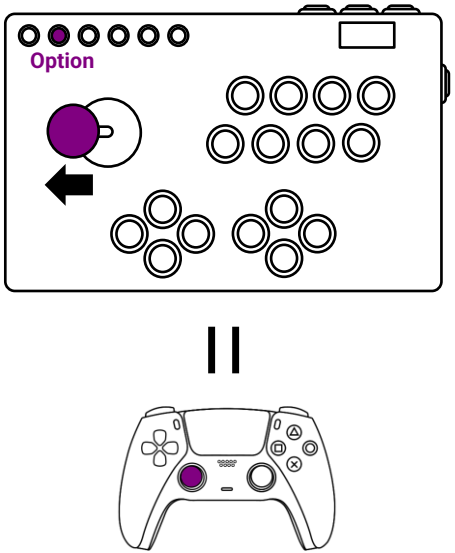
- Press and hold the following button combinations for about three seconds to switch between DP/RS/LS modes：

Default

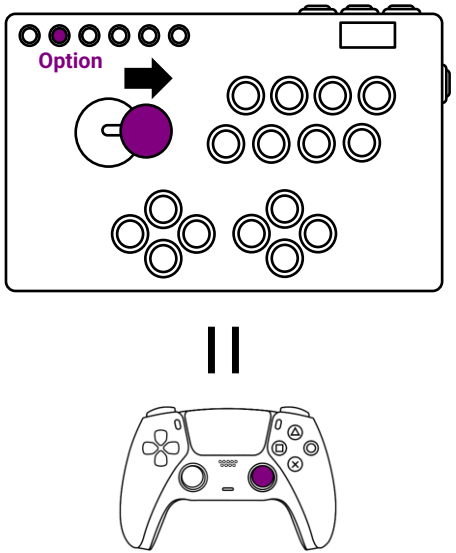
Option + Up = DP mode



Option + Left = LS mode

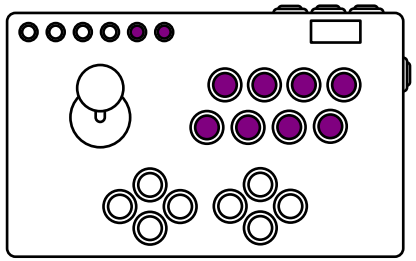


Option + Right = RS mode



Support Turbo function

- There are currently five key press frequencies available： 5, 10, 15, 20, and 25 Hits/Sec.
- Hold 【Fn+Option】, then press ↑ to increase the frequency; press ↓ to decrease the frequency.
- Hold 【 Fn+ Option 】, then press the button you want to set or cancel the turbo function
- The keys that can be set for the Turbo function are： Square、Triangle、Cross、Circle、R1、L1、R2、L2、R3、L3



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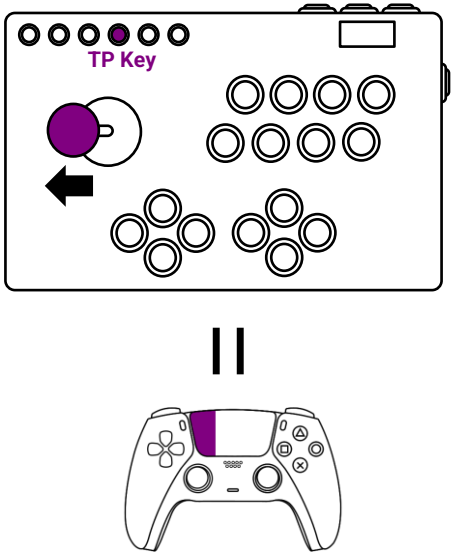
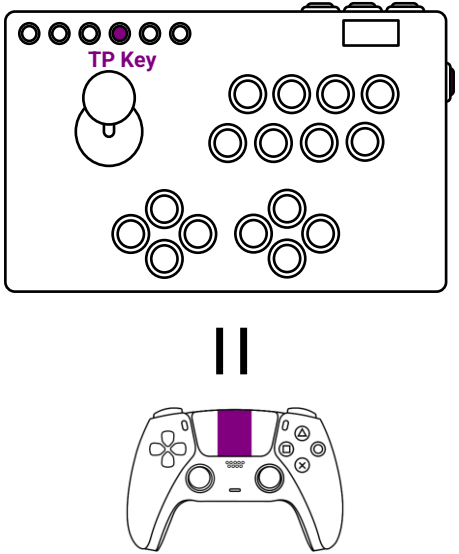
Support Touchpad emulation

- Press and hold the following button combinations to simulate the corresponding touchpad operations：

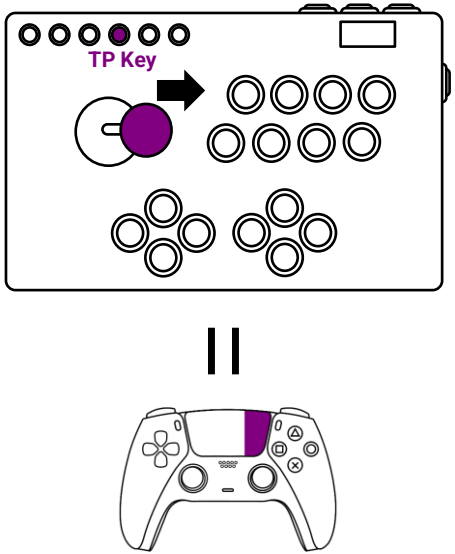
TP Key + Left = Left touchpad



TP Key = Middle touchpad



TP Key + Right = Right touchpad



Supports RGB LED

- Compatible with WS2812B RGB LEDs and requires a daisy-chaining connection.
- Upon power-up, the RGB LEDs will light up each button in sequence in a marquee style. The lighting sequence will follow the order of the daisy-chained RGB LEDs.

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Gen-5X Fighting Board

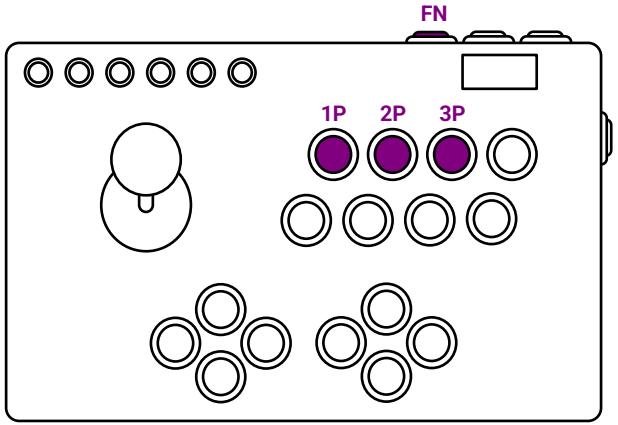
Supports RGB LED

- RGB LED operation and instructions：

1. Fn + 1P： Switch lighting effects.

Effect sequence： All off (default) → Turn off when pressed → Turn on when pressed → Breathing light → Marquee (left to right) → Marquee (right to left)

2. Fn + 2P： Increase brightness
3. Fn + 3P： Decrease brightness



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Supports RGB LED- Lighting Effect Description

1. **All Off**： RGB LEDs will not light up.
2. **Turn off when pressed**： Initially, the key LED is on. When pressed, the LED turns off. When the key is released, the LED turns on again.
3. **Turn on when pressed**： Initially, the key LED is off. When pressed, the LED turns on. When the key is released, the LED turns off again.
4. **Breathing Light**： The RGB LEDs gradually brighten and dim periodically.

The RGB LEDs will have Breathing Light effect continuously.

And won’t have reaction when you press anything.

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Supports RGB LED- Lighting Effect Description

5. **Marquee(First to Last)**： Colors will change in a gradient cycle from first to last according to the daisy-chained order of the RGB LEDs.
In brief, it will follow the order of your wiring.
From first to last.
For example, if you connect “UP” first, then “UP” will light first.

6. **Marquee(Last to First)**： Colors will change in a gradient cycle from Last to First according to the daisy-chained order of the RGB LEDs.
In brief, It will follow the order of your wiring backward.
For example, if you connect “UP” first, then “UP” will light last.

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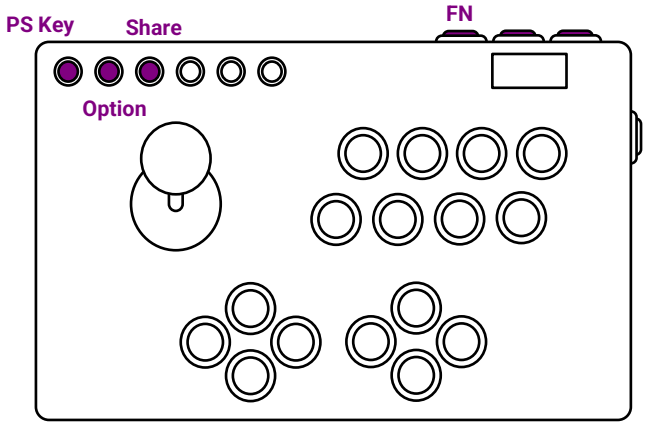
Support Lock function

- Press and hold 【Fn + Option + Share】 to enable or disable the lock state. The OLED screen will display a corresponding icon.
- When the lock state is enabled, the following buttons will be disabled：PS Key、Option、Share、Fn



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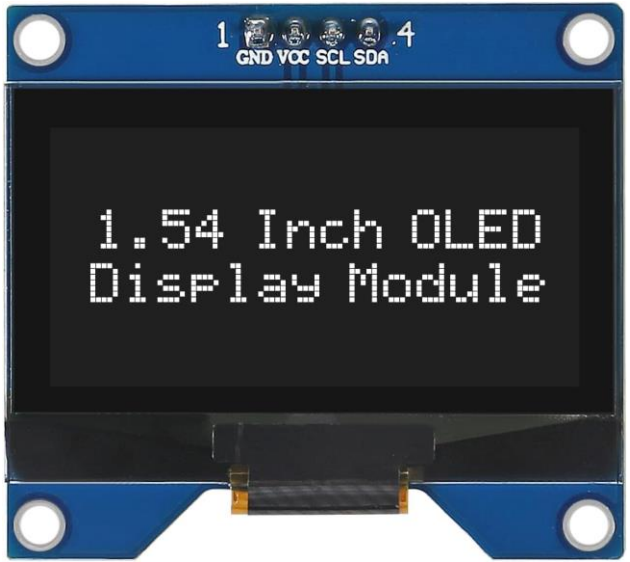
Supports OLED- Display module



GND	Ground
VCC	3.3V~5V
SCL	Clock Line
SDA	Data Line
Resolution	128 x 64
Driver IC	SSD 1309,compatible with SSD1306
Interface	I2C Interface

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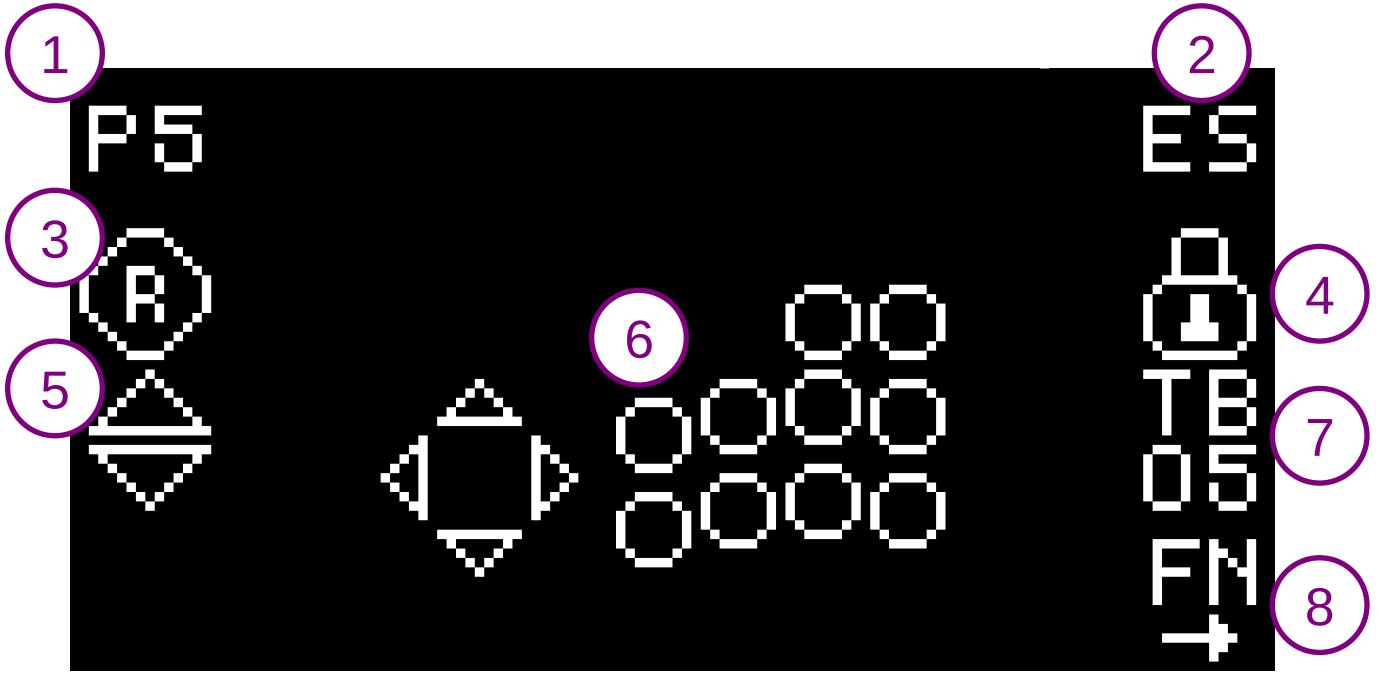
Supports OLED- Display Layout



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Supports OLED- Display instructions

1. Controller interface mode

Icon	Status/Item Name	Description
	Sony Playstation 5	The controller interface mode is： Sony Playstation 5
	Xbox series X/S	The controller interface mode is： Xbox series X/S
	Nintendo Switch	The controller interface mode is： Nintendo Switch
	PC (XID mode)	The controller interface mode is： PC (XID mode)

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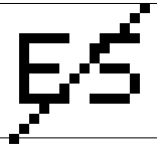
Supports OLED- Display instructions

2. Esport Mode： Indicates compliance with competition standards.

Icon	Status/Item Name	Description
	Compliant	Indicates that the current settings meet international esports standards.
	Non-compliant	Indicates that the current settings do not meet international esports standards, possibly due to Turbo and Macro functions being enabled.

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Supports OLED- Display instructions

3. Stick mapping mode

Icon	Status/Item Name	Description
	DP mode (Default settings)	The current setting is DP mode.
	RS mode	The current setting is RS mode.
	LS mode	The current setting is LS mode.

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4. Lock Function States.

Icon	Status/Item Name	Description
	Unlocked.	The current status is unlocked.
	Locked.	The current status is locked.

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5. SOCD Mode

Icon	Status/Item Name	Description
	Up Priority (Default settings)	The current SOCD mode is Up Priority.
	All Neutral	The current SOCD mode is All Neutral.
	Last Priority	The current SOCD mode is Last Priority.
	ByPass	The current SOCD mode is ByPass.

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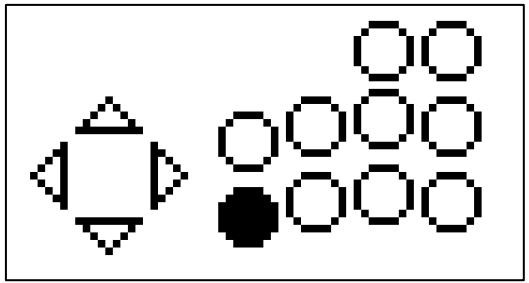
Supports OLED- Display instructions

6. Button Configuration

There are two modes： "Normal Mode" and "Turbo Mode."

Normal Mode

When no buttons have Turbo mode enabled, display the current button press status in real-time.

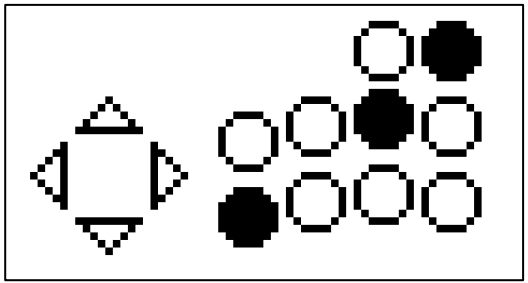


●：Represent buttons currently being pressed.

○：Represent buttons currently not being pressed.

Turbo Mode

Display which buttons have Turbo mode turned on.



●：Buttons with Turbo mode

○：Buttons without Turbo mode

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7. Turbo status

Icon	Status/Item Name	Description
NM	Normal Mode (Default settings)	The current setting is Normal Mode.
TB 05	Turbo Mode (5 Hit/Sec)	The current setting is Turbo Mode (5 Hit/Sec).
TB 10	Turbo Mode (10 Hit/Sec)	The current setting is Turbo Mode (10 Hit/Sec).
TB 15	Turbo Mode (15 Hit/Sec)	The current setting is Turbo Mode (15 Hit/Sec).
TB 20	Turbo Mode (20 Hit/Sec)	The current setting is Turbo Mode (20 Hit/Sec).
TB 25	Turbo Mode (25 Hit/Sec)	The current setting is Turbo Mode (25 Hit/Sec).

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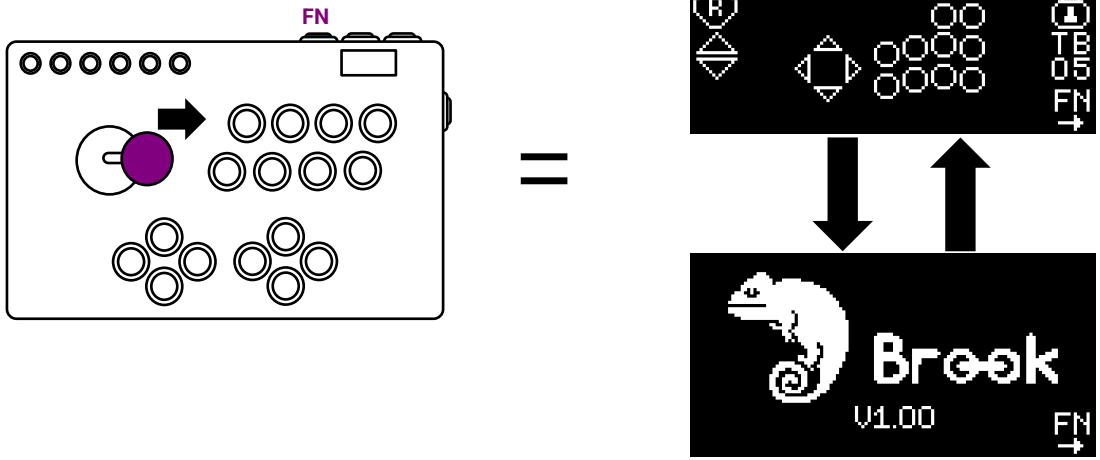
Supports OLED- Display instructions

8. Page Switch Hotkey Hint

Simply press 【FN + →】 to switch the OLED display to the next page and view the current firmware version.