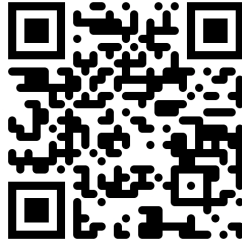


PXN-X9 Drop-In Replacement Board

Hardware Version 1.0

GP2040-CE Firmware Version 0.7.7

For full documentation on how to use the GP2040-CE firmware, scan the QR Code.



Change Input Mode:

Hold one of the following buttons while plugging in the controller:

- '[B1](#)' for Nintendo Switch
- '[B2](#)' for XInput
- '[B3](#)' for PS3/DirectInput/USB-HID
- '[B4](#)' for PS4/PS5
- '[R1](#)' for Xbox One/S/X
- '[R2](#)' for Keyboard

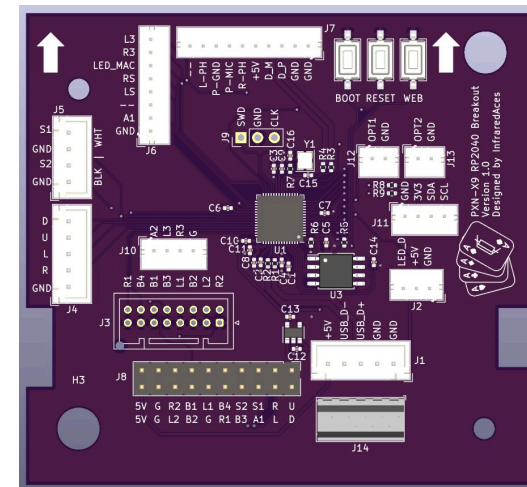
Note: PS4, PS5, and Xbox One/S/X all require an additional dongle to authenticate and work properly. PS4/PS5 will work for 8 minutes, then become non-responsive without a dongle. Xbox One/S/X will not respond at all without a dongle.



Installation Instructions:

You can either use the original wires from the PXN-X9 or use a Brook wiring harness kit (20 pin+TP/L3/R3)

- PXN-X9 Wiring Harness: Plug the wires in in the same locations as the original wiring harnesses
 - **J1:** Primary USB power and Data
 - **J2:** RGB LED Data
 - **J3:** Right Side Action Buttons
 - **J4:** Joystick Directions
 - **J5:** Start/Select
 - **J6:** Face Menu Buttons
 - **J7:** Passthrough USB port and Microphone Port
- Brook Wiring Harness Kit: Plug the 20 pin wiring harness into **J8** and the TP/LS/RS harness into **J10**



Optional:

- Additional Buttons: J12 (GPIO 07), J13 (GPIO 10)
- I2C OLED Display: J11
 - SDA - GPIO 08
 - SCL GPIO 09)
- Additional Microphone Port Buttons: J7
 - Left - GPIO 12
 - Right - GPIO 11

Hotkeys

Access Web Config:

- On the PCB: Press RESET button while holding WEB
- Hold 'S2' while plugging in the controller
- Hold **S2 + B3 + B4** while the controller is already plugged in

Then go to <https://192.168.7.1> via a PC browser to access the web configurator.

Change SOCD Mode:

Press one of the following button combinations while the controller is plugged in:

- **S1 + S2 + UP** for Up Input Priority
- **S1 + S2 + DOWN** for Neutral
- **S1 + S2 + LEFT** for Last Input Priority

RGB LED Hotkeys

Hotkey	Description
S1 + S2 + B3	Next Animation
S1 + S2 + B1	Previous Animation
S1 + S2 + B4	Brightness Up
S1 + S2 + B2	Brightness Down
S1 + S2 + R1	LED Parameter Up
S1 + S2 + R2	LED Parameter Down
S1 + S2 + L1	Pressed Parameter Up
S1 + S2 + L2	Pressed Parameter Down

Button Input Mappings

GP2040-CE	XInput Xbox One	Switch	PS4	PS3	Direct Input
B1	A	B	Cross	Cross	2
B2	B	A	Circle	Circle	3
B3	X	Y	Square	Square	1
B4	Y	X	Triangle	Triangle	4
L1	LB	L	L1	L1	5
R1	RB	R	R1	R1	6
L2	LT	ZL	L2	L2	7
R2	RT	ZR	R2	R2	8
S1	Back	Minus	Share	Select	9
S2	Start	Plus	Options	Start	10
L3	LS	LS	L3	L3	11
R3	RS	RS	R3	R3	12
A1	Guide	Home	PS	PS	13
A2	-	Capture	Touchpad	-	14

For full information on the board, refer to the GitHub repository:
<https://github.com/InfraredAces/GP2040-CE-projects/tree/main/PXN-X9>