

Tech Dungeon USB Control Panel Manual

System Overview & Compatibility

The Tech Dungeon USB Asteroids Inspired Control Panel is a high-performance arcade input device powered by GP2040-CE firmware. It ships with a high-grade USB-A to USB-C cable for instant plug-and-play connectivity across platforms.

Supported Operating Systems & Platforms

- Windows/Linux/Mac
- MiSTer Systems
- Raspberry Pi
- Ask about other systems

System Recognition

The device is natively programmed to appear as a standard USB keyboard to host operating systems, ensuring broad compatibility without requiring complex drivers.

Power-Up Special Modes

Special configuration menus and utility modes can be accessed by holding specific buttons while plugging the USB cable into your computer:

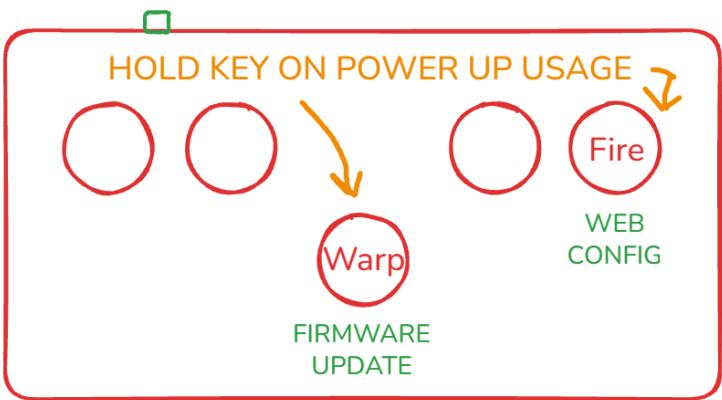
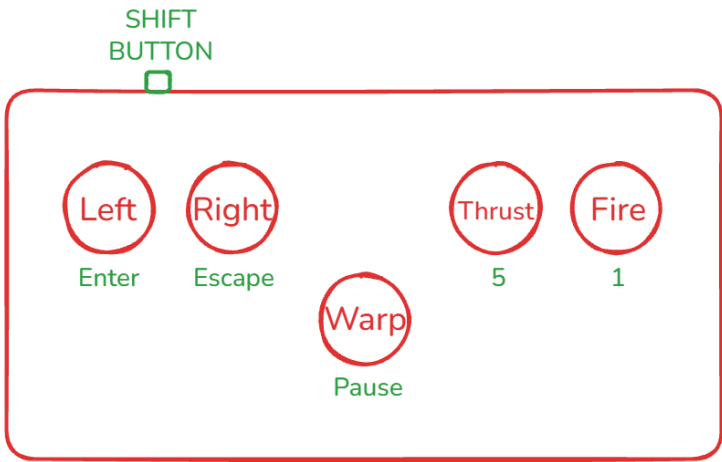
Power-Up Button	Mode / Function	Action / Instructions
Warp Button	Firmware Update Mode	Hold the Warp button while connecting the control panel to your PC. A virtual file system will mount automatically. Drag and drop new firmware files directly into the window.
Fire Button	Web Configuration	Hold the Fire button during connection to enable web settings. Access the GP2040-CE management dashboard in your browser at: http://192.168.7.1

 **Configuration Warning:** Modifying advanced web settings without familiarity can cause the panel to become unresponsive. Reach out to support if you need assistance with custom reconfigurations.

Default & Shift Key Mappings

The control panel features classic arcade inputs designed for precision navigation and responsive action. Holding down the **Shift button** (located on the rear chassis) toggles secondary commands for all primary inputs.

Control Input	Default Action	Shifted Action (Shift Held)
Left	Left Arrow	Enter
Right	Right Arrow	Escape
Thrust	Left Alt	5
Fire	Left Ctrl	1
Warp	Space Bar	Pause



Support & Documentation Hub

For official software downloads, support documents, and device-specific utilities, scan the support QR code or visit our directory below:

- **Online Support Portal:** <https://tinyurl.com/techdungeon-support>
- **Instructions:** Select the *USB Asteroids Inspired Control Panel* from the device listing.
- **GP2040-CE Project:** <https://gp2040-ce.info/>

Tech Dungeon Controls — Hardware Documentation v1.0

