

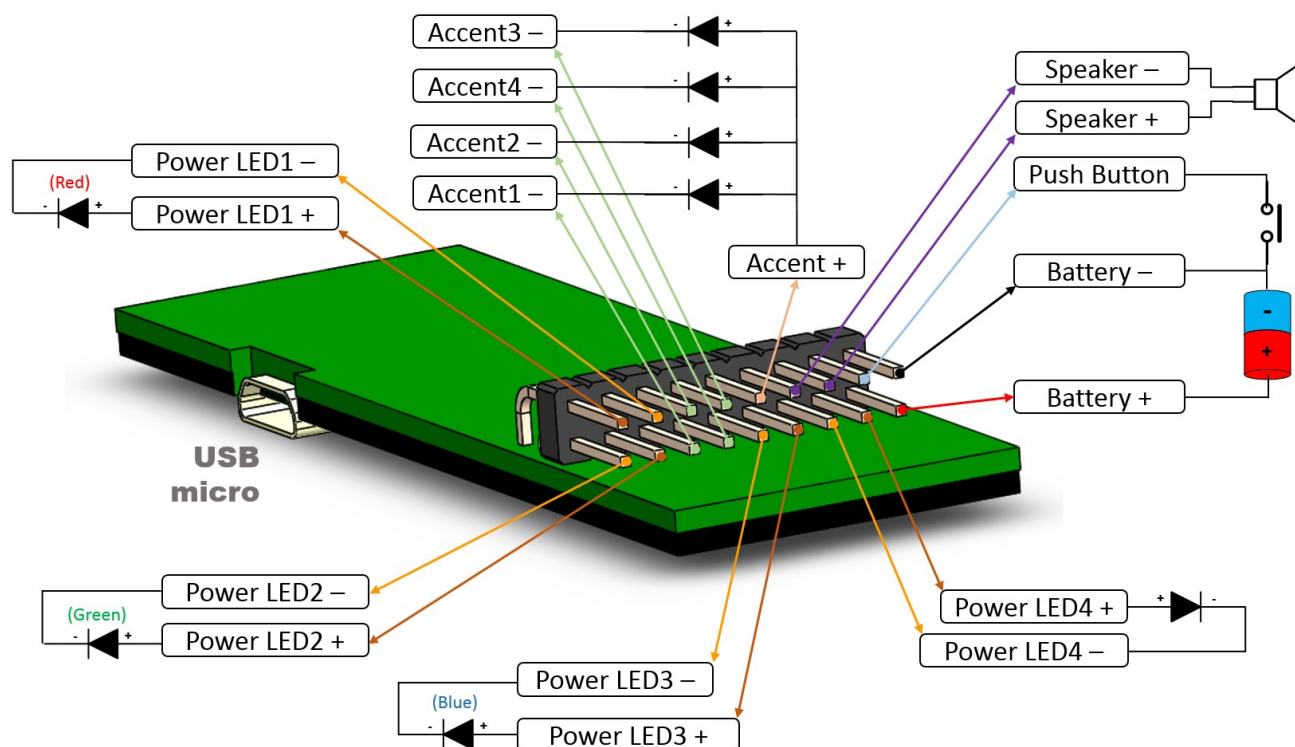


Diamond Controller

- ✓ Lightsaber sound and light controller
- ✓ Advanced motion detection
- ✓ USB interface

Rev. 1.5 / 2017-11-06

Wiring diagram



Functional specifications

- Synchronized sound and light effects
- Advanced motion detection with adjustable sensitivity: Swing, Clash, Spin, Stab, Force
- Gesture recognition – with the ability to learn new gestures from user through the on-board menu
- 16 fonts, changeable through the on-board menu
- 15 effects per font, up to 15 sounds for Swing, Clash, Spin and Stab effects
- 256 MB internal memory
- 4-channel color mixer (Power LED)
- 4 independent, low-power Accent LEDs
- 8 bit light intensity control on each channel, generating more than 16 million colors
- Battery monitor with 2 warning thresholds on any accent LED
- Accepts LSU and WAV sound format (mono, 16 bit, 48 kHz)
- Fully configurable and firmware upgradable through Ultrasabers Launcher software

Electrical specifications

- Operating voltage: 5 – 9 Vdc
- Recommended battery setup: 2 x Li-Ion (3.7V)
- Audio power: 1.25 W @ 8 Ω speakers
- Audio quality: 16 bit, 48 kHz
- Maximum Power LED current: adjustable, 0.1 – 1 A / channel (total maximum: 4A)
- Power LED voltage: 2 – 5 V
- Maximum Accent LED current: adjustable, 0.01 – 0.05 A / channel (total maximum: 0.2A)
- Accent LED voltage: adjustable, 1-4 V
- Standby current: 2.5 mA

Note: Before connecting the LEDs to the Diamond board, please configure the LED maximum current using the Ultrasabers Launcher.

