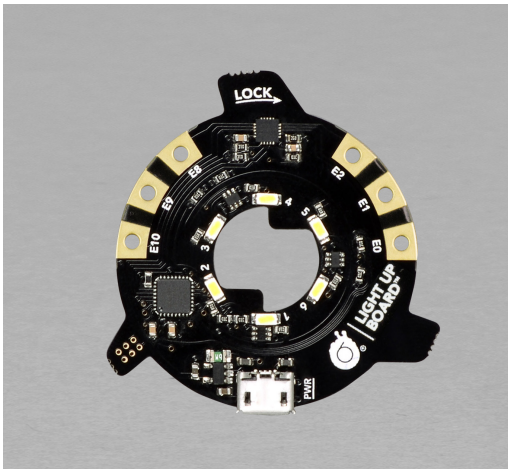
Bare Conductive® Light Up Board®
Technical Data Sheet

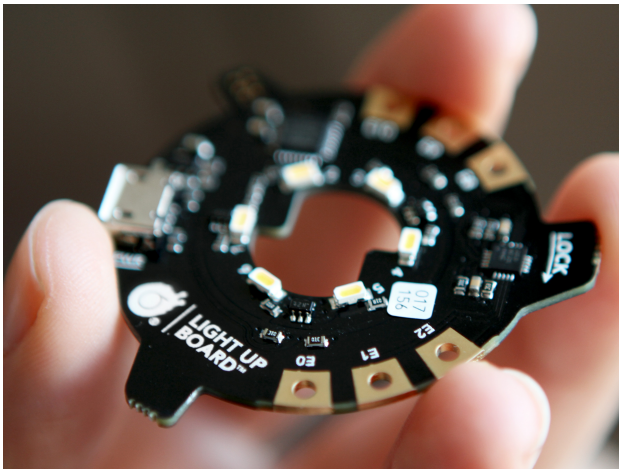
PRODUCT DESCRIPTION

The Light Up Board is a touch-controlled, dimmable LED light on a 0.8mm thin circular PCB. It has six white LEDs and six gold-plated sensor electrodes, allowing you to choose between touch, dimmer or proximity interaction modes and no computer programming is required. The Light Up Board uses the same MPR121 capacitive sensing chip as the Touch Board but it is even easier to use.

Whether demoing a lighting control concept or prototyping a design for an interactive lamp, the Light Up Board is easy to use and is simple to integrate. Use our patent-pending twist and lock method to attach the board to card or plastic or stick it to your project using an adhesive.

The Light Up Board also features a realistic candle light, spin and dice mode. To expand your creative possibilities even further, combine the Light Up Board with Electric Paint and other conductive materials. The Light Up Board is Micro-USB-powered so you can use it with most phone-chargers or power banks.





SUMMARY	
• Microcontroller	Microchip ATmega88
• Touch IC	Resurgent Semiconductor MPR121
• Input voltage	4.40V DC – 5.25V DC via MicroUSB connector
• Current Consumption	200mA max (protected by 350mA PTC resettable fuse)
• Operating voltage	3.3V DC
• Capacitive touch electrodes	6
• Flash memory	8kB
• SRAM	1kB
• EEPROM	512B
• Clock speed	8MHz

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