

Wi-Fi & Bluetooth LED Controller, 5-Channel SPI/PWM, Up to 1200 Pixels

OVERVIEW

The SP530E is a dual-mode IoT LED controller supporting both 2.4 GHz Wi-Fi and Bluetooth 5.0, designed for controlling multiple LED types via SPI and PWM outputs. It accommodates up to five channel configurations including single color, CCT, RGB, RGBW, and RGBCCT, and supports SPI addressable strips from 600 to 1,200 pixels. Control options include the BanlanX app, 2.4 GHz RF remote controls, 2.4 GHz 86-type touch panels, and voice command integration with Alexa and Google Home.

The controller operates at 5 V with a maximum current of 6 A. Its compact housing measures 78 × 56 × 20 mm. Features include music effect modes with multi-segment and matrix spectrum options, OTA firmware upgrades, timer and power-on/off dynamic effect settings, and compatibility with up to 12 LED types. RF remote range is rated at 30 meters.

Certification data listed in product records includes CE, FCC, and RoHS; however, these have not been independently confirmed against a verified test report. Verify compliance documentation with Poli LED & Signs prior to specification.

SPECIFICATIONS

Certifications Raw	CE, FCC, RoHS	Input voltage	5 V
Material	Plastic	Max current	6 A
Dimensions	78		