Date: February 4, 2026 8:40 am

# CHAM-SPI-KIT

## SPI Digital RGB LED Controller Set

### Description

2 Channel SPI Digital RGB LED Controller and Remote Kit. SPI stands for Serial Peripheral Interface in the context of RGB LED strips. It is a high-speed, synchronous, serial communication protocol used to control addressable (digital) LEDs, allowing for individual pixel control (colour/brightness) for dynamic, animated effects. Key Details About SPI LED Strips: Addressable LEDs: Unlike standard RGB strips where all LEDs light up the same colour, SPI strips (e.g., WS2811 or WS2815) have ICs that allow each LED to be programmed individually.
Function: Enables complex patterns, chasing effects, and precise colour changes.
Common Use Cases: Popular for DIY projects, signage, stage lighting, and architectural accents.
Difference from DMX: While DMX is a standardized protocol for large-scale lighting, SPI is generally used for smaller to medium installations.
Common SPI-compatible LED chipsets include WS2811, WS2812B, TM1914, and UCS1903.







### Specification Features

**LED Remote**

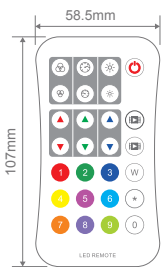
| | |
|---|---|
| Output Signal: | RF (2.4Ghz) |
| Work Voltage: | 3VDC (CR2032) |
| Work Current: | <5mA |
| Standby time: | 2 Years |
| Remote Distance: | 30m (Barrier free space) |
| EMC Standard: | EN IEC 55015:2019+A11:2020 |
| | EN 61547:2009 |
| | EN IEC 61000-3-2:2019+A11:2021 |
| | EN 61000-3-3:2013+A11:2019 |
| Safety Standard: | EN 61347-1:2015+A1:2021 |
| | EN 61347-2-13:2014+A1:2017 |
| Certification: | CE, EMC, LVD |
| Warranty: | 5 Years |

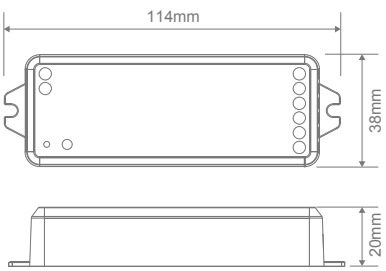
### Specification Features

**LED Controller**

| | |
|---|---|
| Input Voltage: | 5-24V DC |
| Input Current: | 8A |
| Input Signal: | Wifi + RF 2.4GHz |
| Output Signal: | SPI (TTL) x 2 |
| Scenario Mode: | 44 default and 10+ customisations |
| Pixel Dots: | Max. 1000 |
| Operation Temperature: | Ta: -30 °C ~ +55°C |
| Case Temperature (Max): | Tc: +65°C |
| IP rating: | IP20 |

### Diagrams / Additional




| Item No. | Variant |
|---|---|
| CHAM-SPI-KIT | 20118 |

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Specification subject to change without prior notice.