LT8915RTW-BTAM | Bluetooth® Mesh

PIXIE Universal LED Strip Controller

A universal Bluetooth Mesh controller for 12V and 24V constant voltage LED strip from any manufacturer - single colour, RGB, RGBW, TW/CCT and RGBTW. Set a single DIP switch onsite to match the strip type. Works with PIXIE and PIXIE PLUS apps for smooth, flicker-free dimming from 100% to 1%, with full colour and CCT tuning where the strip supports it.



Key Features

Universal strip compatibility
Works with all LED strip types from all manufacturers - single colour, RGB, RGBW, TW/CCT and RGBTW. One controller covers every 12V and 24V constant voltage project.

High-current output
16A max input current. Outputs up to 6A per channel on R, G and B terminals, and up to 7.5A per channel on CW and WW terminals. Suitable for long strip runs.

Smooth 100% to 1% dimming
Flicker-free deep dimming via PIXIE Bluetooth Mesh. Works with both PIXIE and PIXIE PLUS apps for consistent smooth performance across the full dimming range.

DIP switch configuration
DIP switches 1-3 set the working mode to match the attached LED strip type. DIP switch 4 enables or disables the memory function. No programming required for basic operation.

Dual bell press inputs
Two separate momentary switch inputs - one for RGB channels, one for white channels. Enables on/off, dimming and colour control from a wall mech without needing the PIXIE app.

Memory function
When enabled via DIP switch 4, the controller restores the last known state (on/off, brightness, colour) after a power outage. Disable to default to full brightness on power restore.

Specifications

Specification	LT8915RTW-BTAM
Input voltage	12-24V DC, matching the LED strip voltage
Max input current	16A
Max output per channel	R / G / B: 6A each; CW / WW: 7.5A each
Supported strip types	Single colour, RGB, RGBW, TW/CCT, RGBTW
Dimming range	100% to 1%
Dimensions (L x W x H)	160 x 52 x 30 mm
Wireless technology	Bluetooth® Mesh
IP rating	IP20
Operating temperature	-10 to 45 degrees C
Operating humidity	10-85% RH, NC

Specs sourced from QSG v1.0 (2026-02-12).

Important: Always verify specifications against the current Quick Start Guide and Installation Manual before specifying or installing. Available at pixiepartners.com.au/pixie-datasheets-and-installation-manuals/

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Control Button Operation

Button 1 - R / G / B outputs (RGBTW, RGBW and RGB modes)

1 click	Turn RGB lights on/off
2 clicks	Maximum brightness
3 clicks	Next colour: Red > Green > Blue
Long press	Dim up/down; release to stop
4 clicks	Enter pairing mode
9 clicks	Factory reset

Button 2 - WW / CW outputs (invalid in RGB mode)

1 click	Turn white lights on/off
2 clicks	Maximum brightness
3 clicks	Next CCT: Warm > Cool > Daylight (RGBTW and TW modes only)
Long press	Dim up/down; release to stop
4 clicks	Enter pairing mode
9 clicks	Factory reset

Momentary switch inputs mirror each button. Reset controller to factory default before changing DIP switch working mode.

PIXIE App Control

- Smooth dimming and full colour or CCT control
- Scene creation - save and recall favourite settings
- Scheduling - set on, off and dim times automatically
- Group control - manage multiple controllers together
- Voice control via Google, Alexa or Siri (Gateway required)
- Remote access from anywhere (PIXIE PLUS App + Gateway required)
- PROGRAMode automations - trigger strip by time, sensor or other device (Gateway required)

PIXIE App for local Bluetooth control. **PIXIE PLUS App** adds remote access, voice control and PROGRAMode automations. Gateway (SGW3BTAM) required for remote access and voice control.

Complete Installation Documentation

Full wiring instructions, DIP switch configuration and commissioning steps are in the Quick Start Guide for this product. Available at pixiepartners.com.au/pixie-datasheets-and-installation-manuals/

Related Products

PIXIE Multifunction Switch
SMFBTAS

Connect to the bell press inputs for wall control of the LED strip without the PIXIE app. On/off, dim and colour control from a standard switch mech.

PIXIE COB LED CCT Strip Kit Gen3
FLBP24V2M/CCT/BTAM

PIXIE-tested 24V COB LED CCT strip kit. Use with the Universal Controller in Tunable White mode for full warm-to-cool colour temperature control.

PIXIE Gateway Gen3
SGW3BTAM

Required for remote access, voice control and PROGRAMode automations via the PIXIE PLUS App.

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