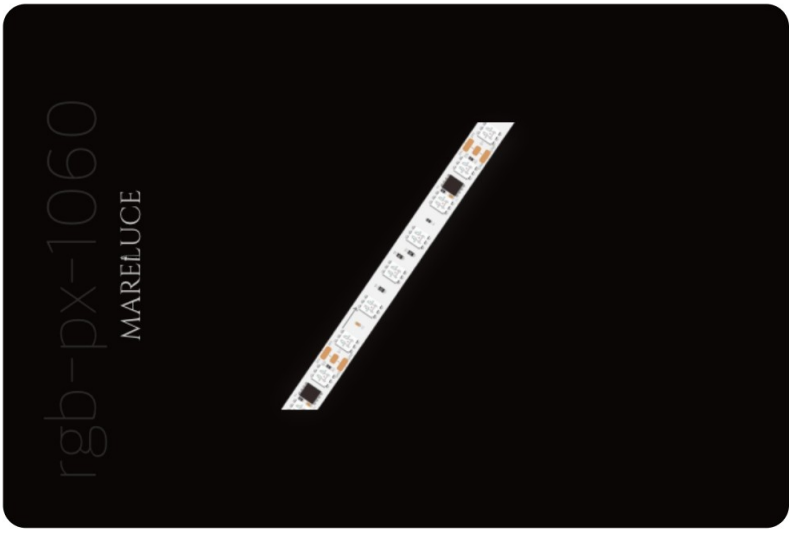
LED STRIP · ADDRESSABLE RGB · SPI

RGB-PX-1060

10 mm addressable RGB LED strip, 60 LEDs/m, 14.4 W/m, UCS1903 IC · 12 / 24 V DC



PCB WIDTH 10 mm	POWER 14.4 W/m
VOLTAGE 12 / 24 V DC	PIXELS (24 V) 10 / m
IC UCS1903	CONTROL SPI

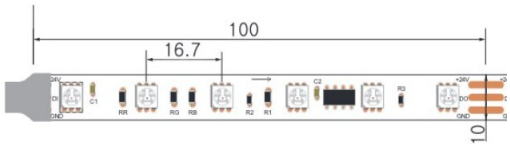
Overview

RGB-PX-1060 is a 10 mm addressable RGB LED strip with 60 5050 LEDs per metre and UCS1903 driver ICs. Each pixel can be controlled individually with a single-wire SPI signal for chases, gradients, scans and animated colour effects along decks, ceilings and bars on board. Available for 12 V (20 pixels/m) or 24 V (10 pixels/m).

Specifications

Dimension	5000 × 10 × 2 mm (5 m reel)
LED	5050 SMD RGB, 60 LEDs/m, 16.67 mm pitch
IC	UCS1903, SPI single data line
Pixels	10 / m (24 V) · 20 / m (12 V)
Cut unit	6 LEDs / 100 mm (24 V) · 3 LEDs / 50 mm (12 V)
Power	14.4 W/m (all channels on)
Current	0.6 A/m (24 V) · 1.2 A/m (12 V)
Lead wire	150 mm, 3-core, 20 AWG
Protection	IP20 standard; IP52, IP65H, IP65, IP67, IP67E, IP68 on request
Beam angle	120°
PCB	2 oz copper, high-thermal 3M adhesive
Ambient temperature	−20 °C to +50 °C
Min. bend radius	50 mm

Cut Unit



ORDERING INFORMATION

Product Code

RGB-PX-1060	RGB	24 V
MODEL	COLOUR	VOLTAGE
	UCS1903 · SPI	12 · 24 V DC

Specify supply voltage when ordering. Example: **RGB-PX-1060**, 24 V DC. Controlled by any SPI pixel controller supporting UCS1903 / WS2811 protocol.

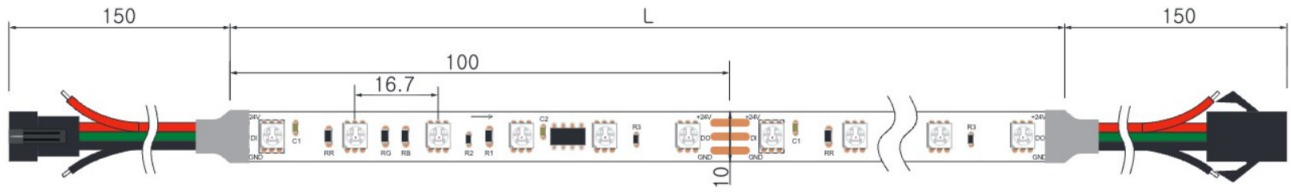
Photometric Data

CHANNEL	WAVELENGTH / CCT	POWER	LM/M	LM/W
Red	620–625 nm	4.63 W/m	107	23.2
Green	520–525 nm	5.04 W/m	347	68.8
Blue	465–470 nm	4.72 W/m	64	13.6
RGB (all on)	—	14.4 W/m	531	36.9

Measured on IP20 strip, one channel at full output; RGB = all channels on.

DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



L = ordered length; drawing shows the 24 V version with connector leads at both ends. Cut every 100 mm (24 V) or 50 mm (12 V).

Wiring

CORE	FUNCTION
Red	V+
Green	Data DI / DO
Black	V− (GND)

3-core lead wire, 150 mm, 20 AWG.

Control

Signal	SPI, single data line
IC	UCS1903
Pixel pitch	100 mm (24 V) · 50 mm (12 V)
Controller	SPI pixel controller, UCS1903 / WS2811 compatible

Pixel & Length

ITEM	VALUE
Pixel pitch / cut unit	100 mm (24 V) · 50 mm (12 V)
Pixels per metre	10 (24 V) · 20 (12 V)
Reel length	5 m

Light output and power may vary by up to ±10% due to production and component tolerances.