

## RGBW COB LED Strip - 24V, IP20

784 LEDs/m | 12mm wide | Analogue | 50mm cut interval

**5 Years**

WARRANTY

**IP20**

BODY RATING

**10m**

CONTINUOUS RUN

**50mm**

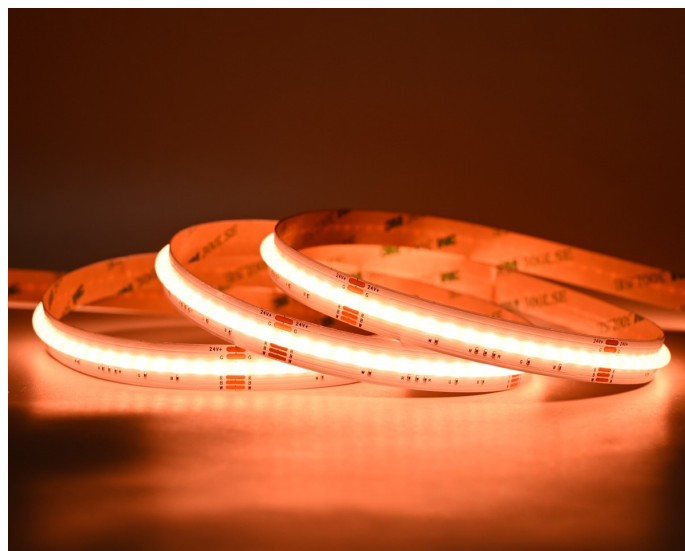
CUT INTERVAL

**24V DC**

SUPPLY

### SPECIFICATIONS

|                       |                         |
|-----------------------|-------------------------|
| LED type              | COB LED Strip           |
| Voltage               | 24V DC constant voltage |
| Colour output         | RGB + warm white 3000K  |
| Strip size            | 12mm wide               |
| Connector width       | 12mm                    |
| Cable length          | 20cm                    |
| LEDs per metre        | 784                     |
| Lumens per metre      | 810 lm/m                |
| Power                 | 19 W/m                  |
| Control               | Analogue                |
| Cut interval          | 50mm                    |
| Order length          | 1m to 10m               |
| Continuous run        | 10m                     |
| Body protection       | IP20                    |
| Warranty              | 5 Years                 |
| Operating temperature | -25°C to 40°C           |
| Lifetime              | 50,000 hours            |
| CRI, white output     | >90                     |
| Beam angle            | 180°                    |
| Continuous operation  | 15 hours                |
| Certification         | UKCA, CE, RoHS          |



RGBW COB strip (catalogue illustration).

### COLOUR AND CONTROL

RGB colour mixing and a dedicated warm white channel. A matching colour controller adjusts the connected strip together.

Power supply and controller are selected separately for the installation. Check every connection against the actual strip markings.

### CUTTING, FIT AND ORDERING

Cut only at the marked 50mm positions. The strip is 12mm wide; allow for connectors and verify the profile's internal channel. Order lengths are 1m to 10m. A longer roll or project length does not increase the 10m continuous-run limit.

#### Made to measure

ATOM LED supplies custom-cut lighting for UK projects. Choose the required length at permitted cut marks or contact our team before ordering a longer installation.

## Power, connection and installation

RGBW | 24V DC | IP20 | Analogue

### DIMENSIONS AND CUTTING REFERENCE



Overall width

**12mm**

Cut interval

**50mm**

RGBW COB strip (catalogue illustration). ATOM dimensions and cutting interval are listed alongside; image is not to scale.

### ELECTRICAL PLANNING

Use a regulated 24V DC constant-voltage supply. Rated strip load is 19 W per metre. Size the driver, controller and cables for the connected load and their own installation requirements.

Keep within the 10m continuous-run limit. Have the feed arrangement checked for your planned layout. For longer layouts, plan separate runs and check voltage at the strip under load.

|                   |                     |
|-------------------|---------------------|
| 1m connected load | 19 W                |
| 5m connected load | 95 W                |
| Current per metre | 0.79 A (calculated) |

Calculated from the listed W/m and 24V; not a driver size or an additional run-length rating.

### FIT AND HANDLING

#### Measure before cutting

Confirm the marked 50mm cut position and final length. Isolate the power before cutting or connecting.

#### Mount without stress

Use a clean, dry surface and a suitable aluminium profile. Keep the strip clear of sharp edges; do not bend sharply, twist, crease, crush or pull on the connections.

#### Confirm control compatibility

Use a compatible RGBW controller. Match each marked colour channel; do not rely on cable colours alone.

### PROTECTION AND COMMISSIONING

IP20 is for dry interiors. Keep the strip away from water, splashes and exposed outdoor locations. Fully unroll the strip before testing. Check voltage, polarity, channel mapping and connections before final fixing. Stop and isolate the power if a section overheats, flickers or is damaged.

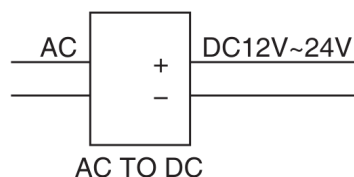
#### Installation guide and warranty

Read Install-COB24V-Colour.pdf before fitting. Warranty: 5 Years. Follow the product and component instructions. Contact ATOM LED before altering a sealed strip or preparing a wet-location connection.

## Wiring and connector reference

24V DC | IP20 | Analogue

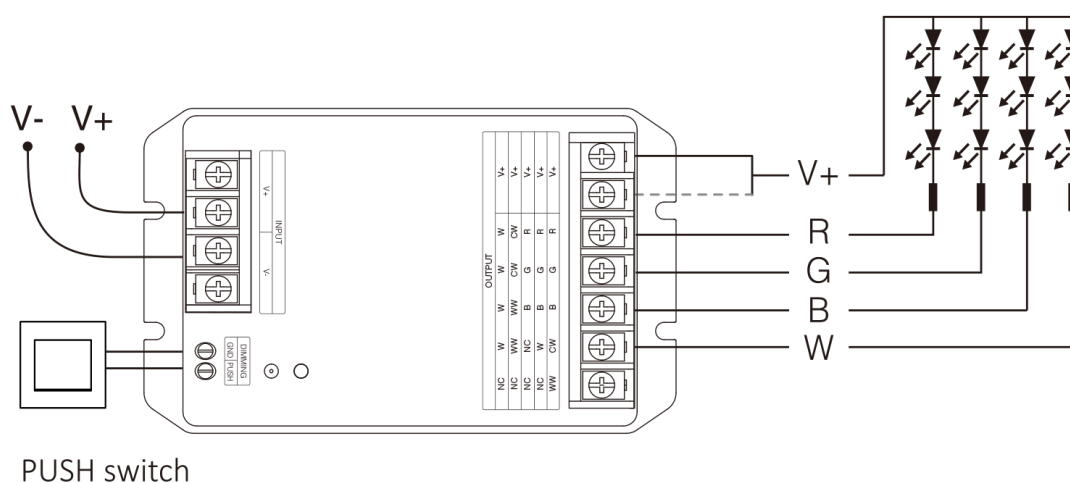
### MAINS, POWER SUPPLY, CONTROLLER AND STRIP



#### AC mains to 24V DC

Use a regulated 24V DC constant-voltage supply. Match its + and – outputs to the required DC input. Follow the PSU's own mains and protective-earth instructions.

Power-supply stage: original MiBoxer manual example



Controller stage: original MiBoxer HW5 connection diagram

Set HW5 to RGBW mode. Use 24V DC for this strip; the controller voltage range is not an alternative strip voltage. Match every printed channel and pad label.

HW5: maximum 15A per channel and 30A total. Check the driver, each channel, connector and cable against the connected load. The separate source panels show the supply stage and the controller circuit.

### CONNECTOR AND TERMINATION

#### 12mm 5-Pin Connectors Kit for RGBW COB LED Strip Light IP20

For 12mm PCB, 5 contacts, IP20.

Listed for this strip family. Align every copper pad and confirm the connector current rating for the connected load before fitting.



View matching connector on ATOM LED

The photo shows the connection detail; cable colour alone does not identify a terminal. PCB fit and outer connector-body width are different measurements.

Isolate power before cutting, wiring or changing connections. Use the product figures and cut marks on pages 1–2 for the strip itself.