

cod.m WLED LAN controller with PoE

- WLED LAN controller for DIN rail mounting
- Configurable outputs thanks to plug-in modules
- Designed for controlling single-wire digital LED strips (WS281x, SK6812, etc.)
- Suitable for 5V, 12V **and** 24V installations
- Ready to use thanks to pre-installed WLED
- Operation via LAN – Wi-Fi possible
- Power supply with PoE (802.3af) or 12-24V DC via screw terminal block
- Made in Germany, CE, RoHS, WEEE



1 Commissioning

1. With the power switched off, mount the WLED LAN Controller on the DIN rail and connect it according to the connection diagram and the selected output configuration. Output modules can be mixed.
Work on electrical distribution systems may only be carried out by qualified electricians.



Figure1- Connection diagram with Range OUT

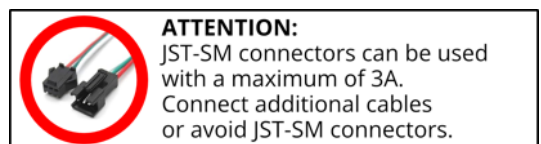


Figure2- Connection diagram with Direct OUT

2. Establish LAN connection and power supply via Power over Ethernet (PoE) or terminal connection (12-24 V DC)
The DC supply takes precedence over the PoE power supply and can be switched on without interruption.
3. Read the IP of the WLED LAN controller from your DHCP server, open the web interface via this IP and configure the outputs accordingly, also see Configuration section of this document.

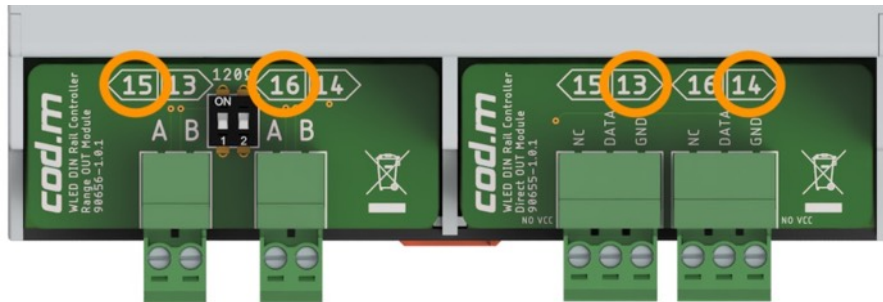
The controller does not supply power (load current) to the strips!
Dimension the power supply for the strips according to the power rating in relation to the power supply unit as well as cable cross-section and, if necessary, feed in multiple times.

We recommend using our WLED Power Capacitor Board (item no. 90062) for each feed.



2 Configuration

Configure the LED strips used according to type, length and connection (GPIO). The pins used by the output module are documented according to the slot on the module. For more details, see <https://docs.codm.de/en/wled/lan-controller/#slots>.



Hardware setup

LED outputs:

1:

WS281x

▼

Color Order:

GRB

▼

Start:

0

Length:

30

Data GPIO:

15

Reversed:

☐

Skip first LEDs:

0

Off Refresh:

☐

Then divide the connections into segments to allow separate control of the connected LED strips.

Please be sure to follow the instructions in the Knowledge Base:
<https://docs.codm.de/en/wled/lan-controller/#segments>

Please note: When saving presets, the selected segments are also saved. This can lead to effect overlaps. Please pay attention to the assignment of segments in the presets.

After configuring the connections and segments, the individual segments of the strip can be controlled separately via the web interface or the interfaces with minimal restrictions.



Figure3– Knowledge
Base WLED LAN
Controller

3 Intended use

This module is intended for controlling addressable LED strips. These must be connected in accordance with the connection diagram. Only the specified intended use is permitted. Any other use will void the warranty and liability.

4 Notes

cod.m GmbH hereby declares that the radio equipment type WLED LAN Controller V1.x complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
<https://lnk.codm.de/wled-90650-ce>

Keep the module away from heat and sunlight. Avoid contact with dust and liquids. Only use the module indoors. Protect the module from electrostatic discharge.

5 Technical data

Short name:	WLED LAN Controller V1.2, Item no. 90650	Dimensions:	Housing 64 x 74 x 22 mm
Supply voltage:	12-24 V DC, max. 0.6 W PoE 802.3af max 0.8W	Weight:	135g incl. housing and Range-OUT module
Ambient temperature:	IP20, +5 to +45°C	Standards:	IEEE 802.3 LAN IEEE 802.11 WLAN IEEE 802.3af Power over Ethernet

Support via support@codm.de, no telephone support!

cod.m GmbH
Allendorfer Straße 56
35708 Haiger

CEO: Patrik Mayer
Wetzlar, HRB 6686

+49 2773 91878-0
<https://www.codm.de>
<https://shop.codm.de>

VAT ID: DE815516311
WEEE Reg. No.: DE78677954

cod.m

