

Tunable White Module (TWM)

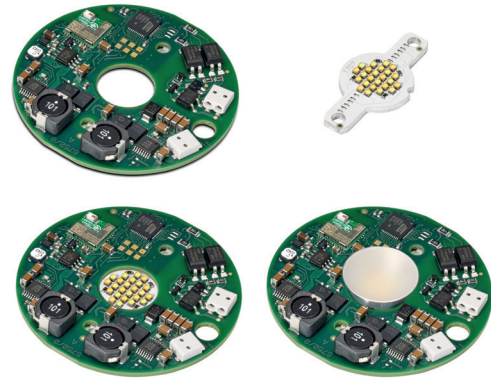
1. Description

The Tuneable White Module is a compact set of basic electronics for controlling LED lighting systems. In its basic configuration, the TWM feature smart technology.

It comprises an IMS LED circuit board and an FR4 circuit board with control electronics, which also includes a unit for light management containing a microcontroller, an LED driver and other electronics components. The TWM can be adjusted in line with customer requirements. For example, a DMX or DALI interface (to control the unit), the number of LEDs, the LED type or the light flux can be selected.

By using a DALI interface, up to 32 two-channel control electronics can be individually controlled. An upstream power supply supplies the corresponding number of TWM. The modular structure, which is based on the Zhaga standard, makes it easy to integrate the TWM into existing lighting systems.

The module's mixing chamber guarantees a homogeneous colour picture, i.e., good blending of the various LED colours. The efficiency factor of the LED control circuit board is up to 94%.



2. Features

- Integrated control electronics
- Integrated LED driver
- Separate LED and control circuit board
- Thermal decoupling of LED circuit board and control unit
- Light colour mixing by way of mixing chamber
- Two LED channels can be separately controlled
- LED current can be adjusted individually for each channel
- Temperature regulation to protect the LEDs
- Multiple control options:
DALI, DMX or other wireless technologies
- Easy integration in lamps

3. Applications

- Building technology
- Lighting technology

4. Technical data

- Dimming
(1...100%)
- Input voltage
24 / 48 V DC
- Input power
approx. 30 W
- Efficiency of controller (driver)
up to 94%

Order information

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