

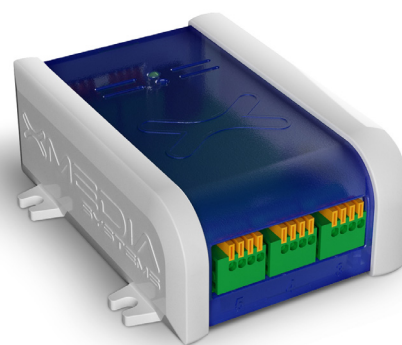
EM-6 EXPANSION MODULE

XM range

The Nexmosphere XM range offers Xperience Controllers in a configurable and extendable form factor making it ideal to use when functionality combinations that aren't available in the smaller ranges are required. This series consists of XM controllers and EM extension units, which are mounted together at our production facilities in order to offer you just the right functionality set for your project.

Extension modules

The EM modules define the exact specification of the complete XM Xperience controller. Combine any of the modules into one system to make it fit the exact application needs. Different functionalities such as LED control, audio switching or large numbers of Element connections through X-talk channels can all be combined on a single XM controller. The EM modules are pre-assembled onto the XM controllers at our production facilities.



Features

- 5x Dimmable RGB LED output

Dimmable RGB LED output

The RGB LED output allows connection and control of any standard 12-24V RGB LED strip to illuminate large surfaces. All outputs are fully dimmable and allow smooth fading between the different intensities and colors.

- 12/24 VDC, 3A max per channel (comb. total output 4A max)
- Individually dimmable LED output (PWM/4096steps)
- Built-in power supply to power XM-Module and other EM-modules

EM expansion

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- Compatible with any of the EM- modules
- Connect up to 5 EM-modules to one XM-controller
- Pre-assembled factory build for your application

Benefits

- Auto start-up and configuration for highly reliable standalone applications (24/7 operability)
- Control multiple RGB LED strips from one single controller
- Combine any of the EM and XM modules to make an exact fit for your application



EM-6 EXPANSION MODULE

Thermal specifications

Operating temperature: +10°C...+40°C/ +50°F ... +104°F
 Storage temperature: -20°C...+50°C/ -4°F ... +122°F
 Cooling: Passive cooling (no moving parts)

Electrical specifications

Operating voltage: 12-24VDC
LPS power adapter*
 Max. system current: 4.0A
 Power consumption: 0.2A
 Max. output per RGBW output: 3.0A @ 12-24VDC
 Max. output on EM interface: 2.0A @ 5VDC (= ±1.0A @12V = ±0.5A @24V)

*No more than 2 power supplies may be connected to an assembled Xperience Controller (XM + EM modules)

Standards and Certifications



Miscellaneous

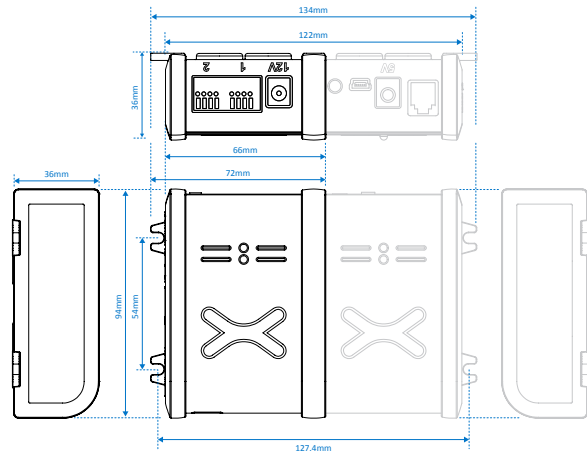
- Robust housing with screw brackets for secure fixing
- Built-in magnets for easy mounting on metal surfaces
- Both horizontal and vertical mounting allowed
- Power LED
- 1-year warranty (optional 3-year extended warranty available)

Packaging

Netto weight: 82g
 Items per carton 1 or 10 pcs
 (pre-assembled on XM controller)

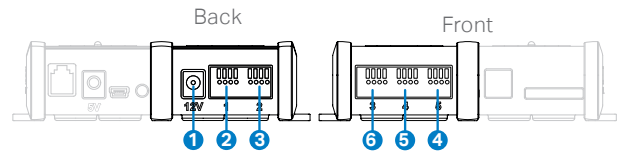
Mechanical dimensions

LxWxH: 94 x 76 x 36 mm
 Screw fixation: 54 x 98 mm



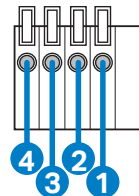
Hardware interfaces

1. 12-24VDC Power input, 2.1mm DC socket
2. RGB Output A (4p wire-to-board terminal 20-26AWG)
3. RGB Output B (4p wire-to-board terminal 20-26AWG)
4. RGB Output C (4p wire-to-board terminal 20-26AWG)
5. RGB Output D (4p wire-to-board terminal 20-26AWG)
6. RGB Output E (4p wire-to-board terminal 20-26AWG)



Pinout RGB output

1. +12VDC / +24VDC
2. Green LED channel
3. Red LED channel
4. Blue LED channel



Ordering information

Product ID	Description	Quantity
EM-6	Expansion module, 5 channel RGB LED output	1 pc

Nexmosphere

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