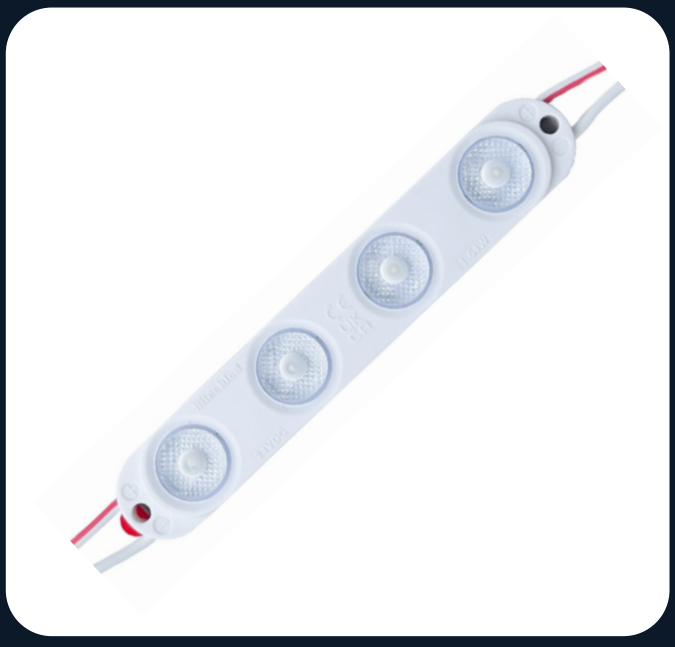
hitechled®
DIFFERENT LIGHTING

HM164
HE-4

1,64 W

hitechled.it | info@hitechled.it

Light up your visual communication with HIGH EFFICIENCY



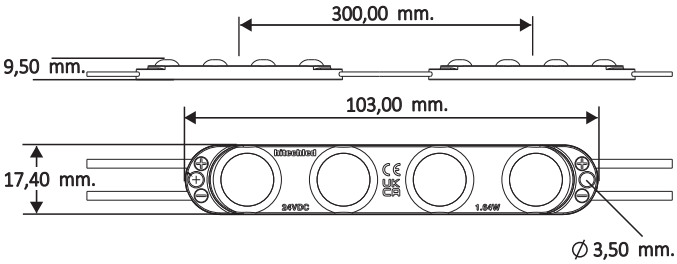
SHALLOW BOX

ADHESIVE REMOVAL TAB

HM164-HE-4

hitechled® DIFFERENT LIGHTING

LED modules for backlighting



Model	Code	Color	Luminous Flux
HM164-HE-4W24	HTL 000869	7000 k	268 Lm
HM164-HE-4NW24	HTL 000870	4000 k	259 Lm
HM164-HE-4WW24	HTL 000871	3000 k	252 Lm

Features

Operating Voltage	DC 24 V
Wattage: W/Module	1,64 W
Accidental reverse input voltage protection up to	DC 25 V
International protection level	IP66 IP67
Operating temperature range	-40 C° ~ +60 C°
Storage temperature range	-40 C°~ +70 C°
Storage enviroment humidity	RH < 60%
IEC protection class (with SELV power supply)	Class III
Life time	70.000h
Prism optic	170°
Cutting	Each module
Modules per chain	40 pcs
Modules per packaging	40 pcs

Description

High efficiency LED module suitable for backlighting of signs. The exclusive optic with prisms, the high efficiency and low light decay, allow to reduce the quantity of modules needed per square meter compared to common LED modules and to illuminate homogeneously and efficiently with significant energy savings.

Application

- Ultra-low consumption illuminated signs.
- Medium and large sized channel letters.
- Light boxes.
- Architectural and decorative applications.
- Indoor and outdoor application

Plus

- The high quality 3M VHB adhesive, with the innovative quick removal tab of the protective film, allows a reduction in application time of 30%.
- High luminous efficiency greater than 156 Lm/W, therefore lower consumption with consequent savings in management costs.
- Increased diameter of prism optic with wide light output angle 170°, excellent light diffusion that allows to reduce the thickness of the signs.
- The internal chip for driving and protecting the LEDs limits the loss of brightness due to the voltage drop in the cables.
- Power supply line + and - independent from the module circuit to limit overheating of the LEDs.

Handling and fixing

The module chains are packaged in an anti-static bag. Each individual module is provided with a fixing adhesive, the tab on the adhesive facilitates quick removal of the protection film. There are also fixing holes for screws in case of surfaces that do not allow the use of adhesive.

Each module works independently, so it is possible to cut the chain at any point between modules.

The ends of the power wires of the Modules must always be kept insulated and collected to prevent them from resting on points where water could stagnate.

An outdoor box containing LED Modules must be equipped with slits in the lower and upper part to promote the “chimney effect” of air recirculation.

III RoHS CE UKCA

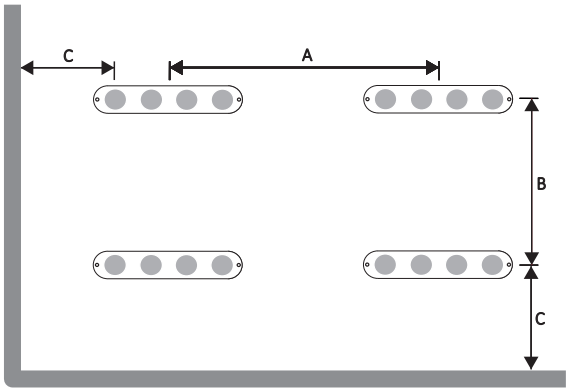
70Kh LIFE SPAN | 7 YEAR WARRANTY | 24 VDC VOLTAGE | HIG EFFICIENCY | DIMMABLE | ADHESIVE REMOVAL TAB

LED modules for backlighting

- **Positioning of LED Modules**
- All internal surfaces of the box must be white to optimize the diffusion of light.
- The LED modules must be fixed to the internal bottom of the box, the surface of which must be flat, not embossed and free of imperfections or nodules, allowing for positioning perfectly perpendicular to the front to be illuminated.
- To fix the LED modules, remove the adhesive protection film and press the module against the surface, making sure to have previously cleaned it of dust and any oily or silicone residues.
- The approximate distances for positioning LED modules in a box are shown in the table below.

Positioning distances (approximate datas)

Box depth	A	B	C
60 mm	140 mm	120 mm	60 mm
80 mm	200 mm	140 mm	70 mm
90 mm	210 mm	150 mm	80 mm
100 mm	250 mm	180 mm	80 mm
120 mm	300 mm	190 mm	110 mm
150 mm	300 mm	210 mm	140 mm
200 mm	300 mm	260 mm	170 mm



Compliance

This product complies with the following European directives: (download pdf attestation)

EMC - Directive 2014/30/EU

EN 55015:2019+A11:2020

EN 61000-3-2:2019+A2:2024

EN61000-3-3:2013+A2:2021+AC:2022-01

UCKA

BS EN 55015:2019+A11:2020

BS EN 61000-3-2:2019+A2:2024

BS EN61000-3-3:2013+A2:2021+AC:2022-01

Safety

EN 60598-2-1:2020 Usata in congiunzione con EN 60598--1:2020

Protection IP66; IP67

EN 60529:1989+A1:1999+A2:2013

RoHS

Direttiva 2011/65/EU; (EU) 215/863

Place of manufacture

This product was designed and engineered in our factory in Italy and produced in our branch in China:

Company:

HITECHLED S.r.l.Via Galileo Galilei 31 S. Biagio di Callalta (TV) Italy +39 0422 895477 info@hitechled.it

Technical specification of 28.04.2025 Rev.02