LED SIGNAGE *solutions*

2017
autumn edition

epiLED

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Planar Board
R3
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epiLED
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DC12V
CE RoHS
micro
J635

Nano

NEW

smallest footprint module

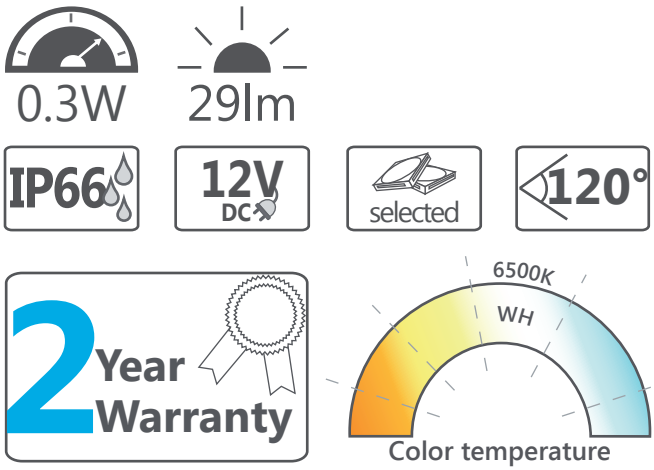
REFOND

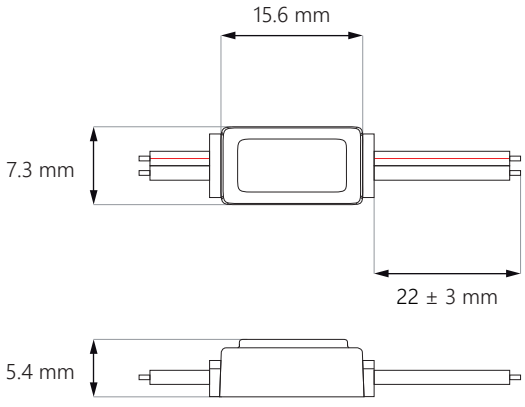
Features

- selected SMD diodes with enhanced brightness
- small size
- aluminum PCB for superb heat dissipation
- chain of 50 pcs
- assembly with 3M tape

Application

min. 3 cm depth channel letters



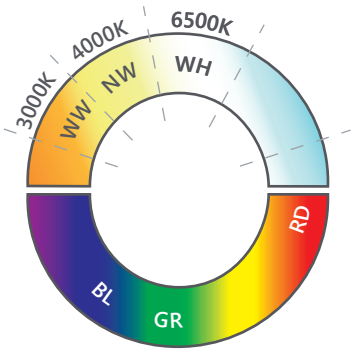


Pico

even for 2 cm depth

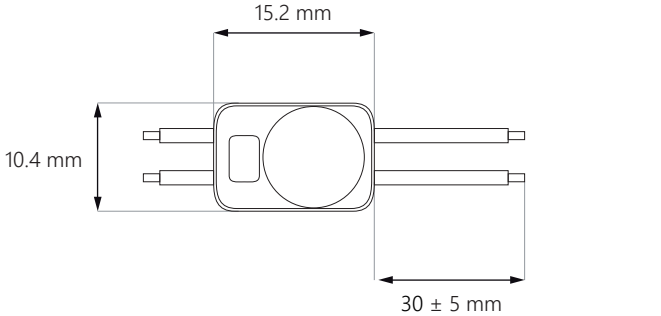
Features

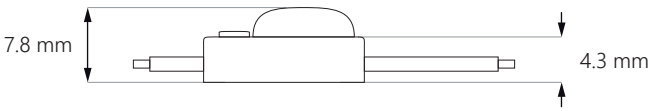
- selected SMD diode with enhanced brightness
- professional 160° lens for excellent light scattering
- small size
- chain of 50 pieces
- assembly with 3M tape



Application

min. 2 cm depth channel letters





Micro[1] / Micro[3]

fits everywhere

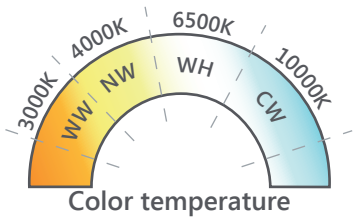
Features

- selected SMD diodes with enhanced brightness
- small size
- aluminum PCB for superb heat dissipation
- chain of 40 pcs (micro[1]) / 20 pcs (micro[3])
- assembly with 3M tape

REFOND

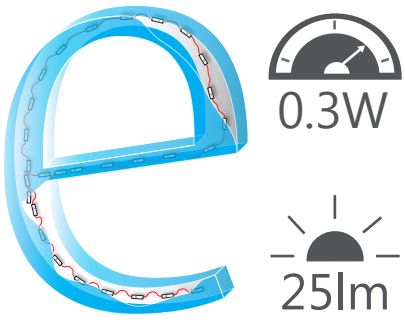
IP65 | 12V DC | selected | 120°

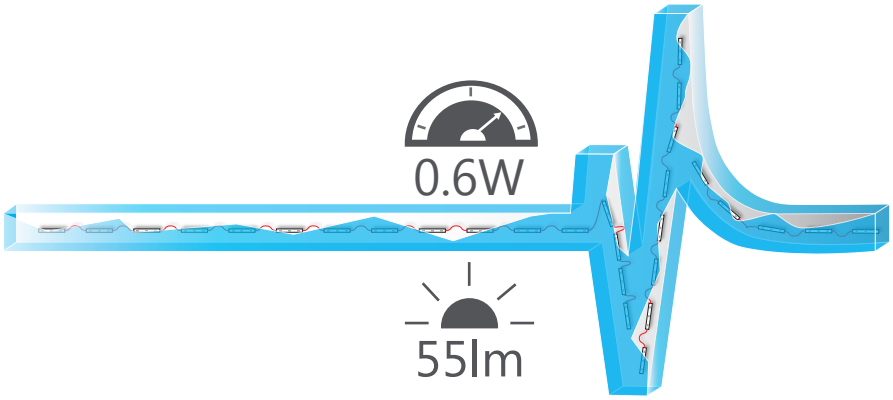
2 Year Warranty

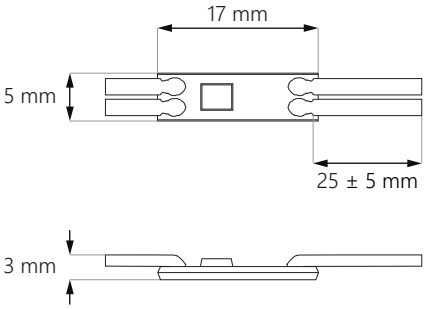


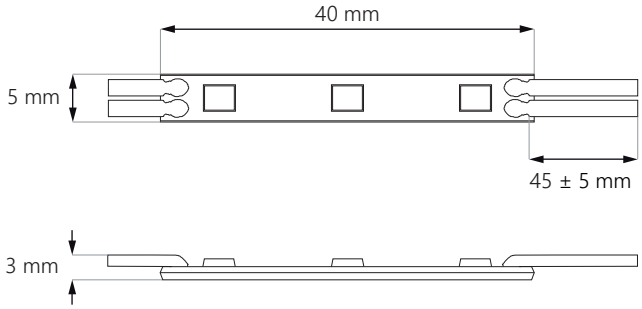
Application

extra small channel letters



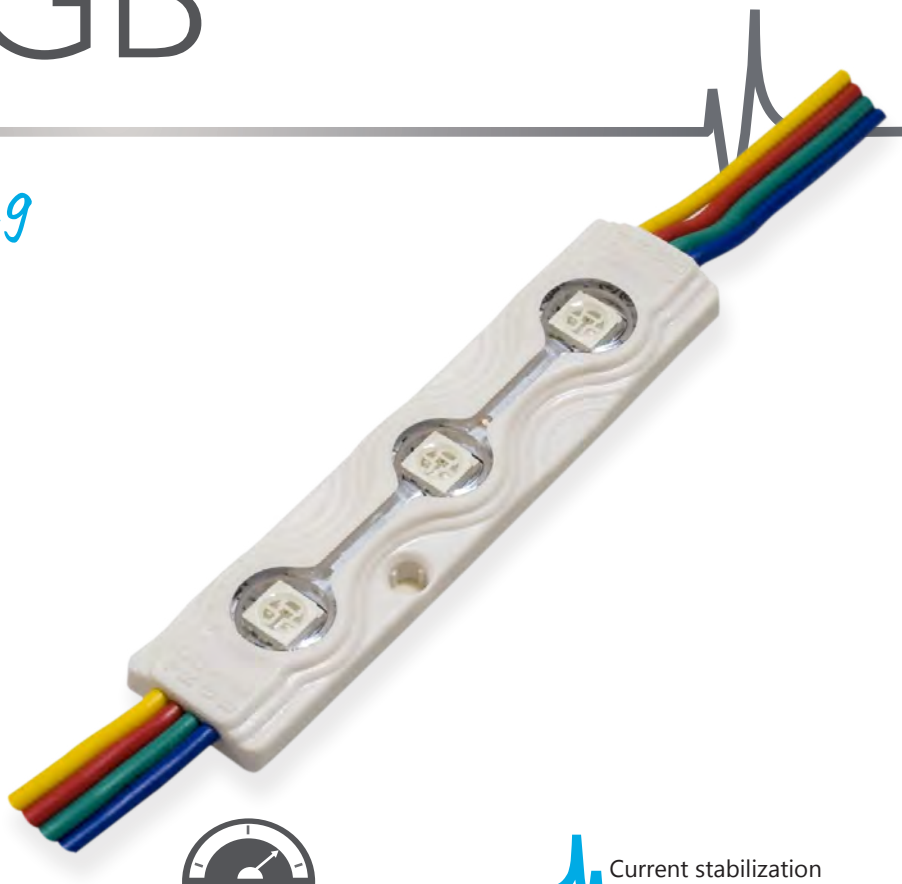






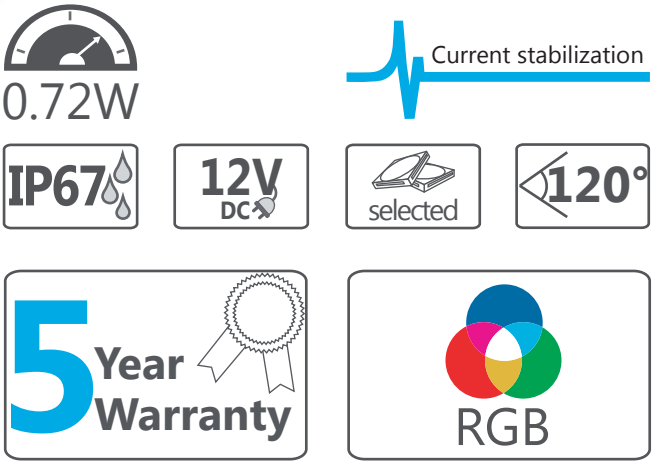
Disco RGB

for decorative lighting



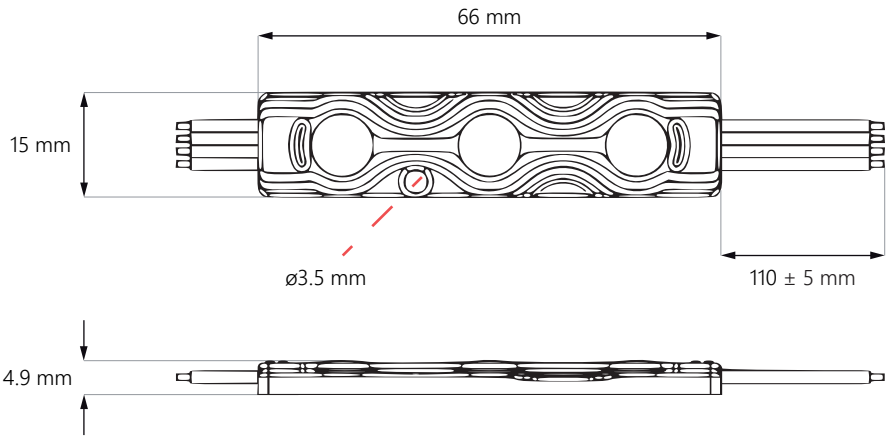
Features

- selected SMD RGB diodes with enhanced brightness
- stabilizer – ensuring uniform brightness
- aluminum PCB for superb heat dissipation
- waterproof IP67 housing
- low energy consumption
- chain of 20 pieces
- auxiliary asembly with 3M tape



Application

lightboxes, channel letters, neon signs, POS system



Opticor

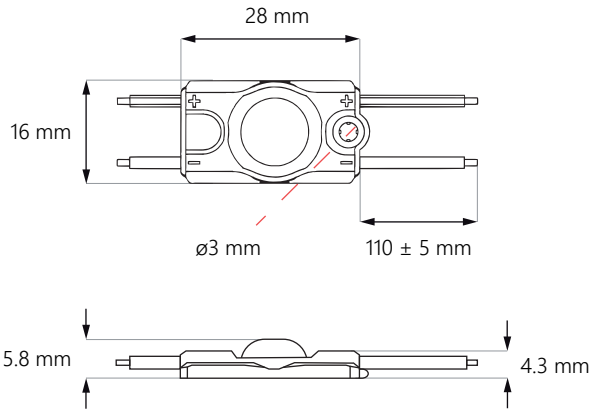
best for 5-10 cm

Features

- selected LEDs — high-efficiency diodes in a housing with heat sink, LM-80's compatible, binned for luminous flux, color temperature / wavelength and forward voltage
- bigger LED chip — more brightness, greater surface area = longer lifespan
- professional lens — 160° bat-wing lens provide greater light scattering, reduce density of the modules in application = reduced cost, and significantly improved illumination uniformity
- stabilizer — constant current integrated circuit
- aluminum PCB — superb heat dissipation
- chain of 50 pieces
- auxiliary assembly with 3M tape

Application

from 5 cm depth small lightboxes and channel letters



0.5W

45lm

Current stabilization

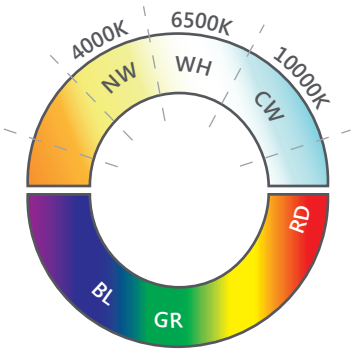
IP67

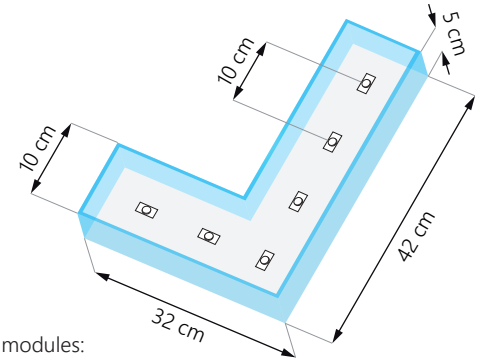
12V DC

selected

160°

5 Year Warranty





Number of modules:
6*

Surface brightness:
3300 lux

* the exact number of modules depends on the used materials

Need extra color?
Opticor[1] by epiLED

Europejski Hotel / Wrocław / Poland

Opticor² by epiLED

Opticor²

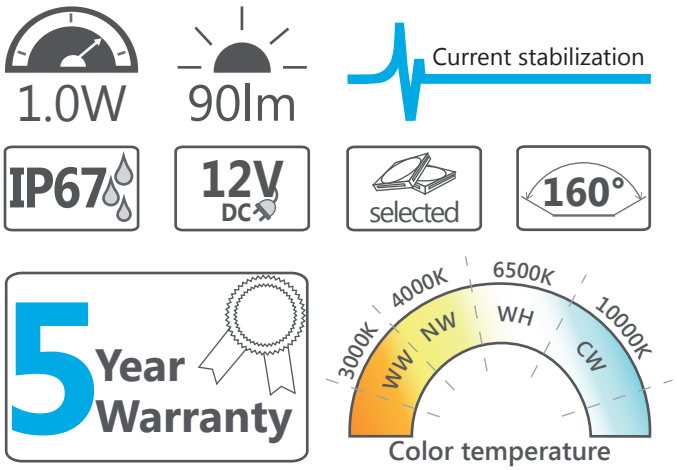
best for 8-15 cm

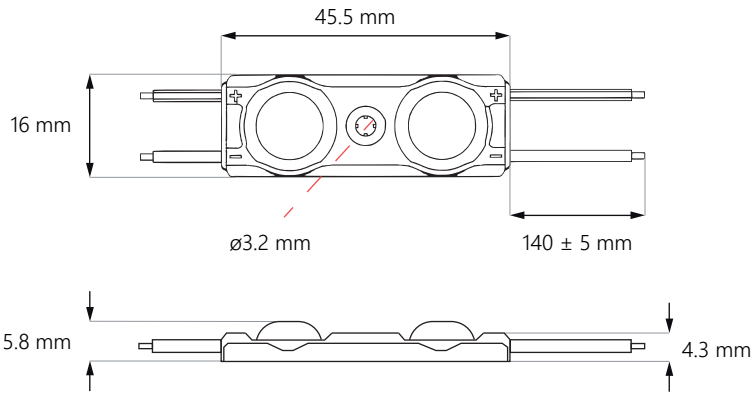
Features

- selected LEDs — high-efficiency diodes in a housing with heat sink, LM-80's compatible, binned for luminous flux, color temperature / wavelength and forward voltage
- bigger LED chip — more brightness, greater surface area = longer lifespan
- professional lens — 160° bat-wing lens provide greater light scattering, reduce density of the modules in application = reduced cost, and significantly improved illumination uniformity
- stabilizer — constant current integrated circuit
- aluminum PCB — superb heat dissipation
- chain of 40 pieces
- auxiliary assembly with 3M tape

Application

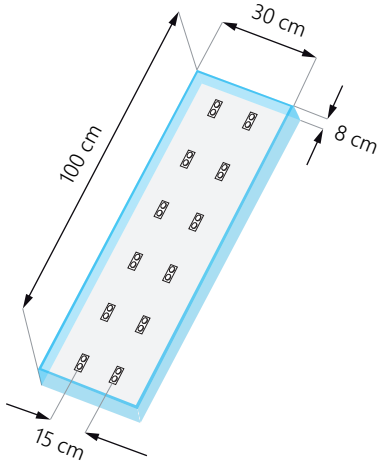
from 8 cm depth medium size lightboxes and channel letters





Number of modules:
12*

Surface brightness:
2600 lux



* the exact number of modules depends on the used materials

epiLED

Opticor³

best for 10-20 cm

Features

- selected LEDs — high-efficiency diodes in a housing with heat sink, LM-80's compatible, binned for luminous flux, color temperature / wavelength and forward voltage
- bigger LED chip — more brightness, greater surface area = longer lifespan
- professional lens — 160° bat-wing lens provide greater light scattering, reduce density of the modules in application = reduced cost, and significantly improved illumination uniformity
- stabilizer — constant current integrated circuit
- aluminum PCB — superb heat dissipation
- chain of 30 pieces
- auxiliary assembly with 3M tape

REFOND

1.5W

135lm

Current stabilization

IP67

12V DC

selected

160°

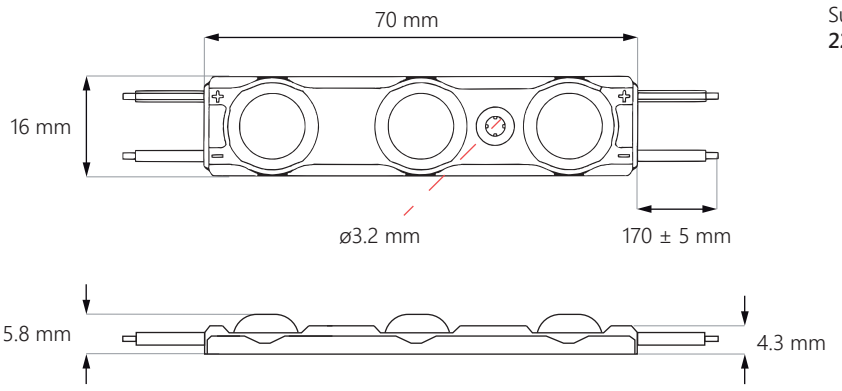
5 Year Warranty

3000K WW 4000K NW WH 6500K CW 10000K

Color temperature

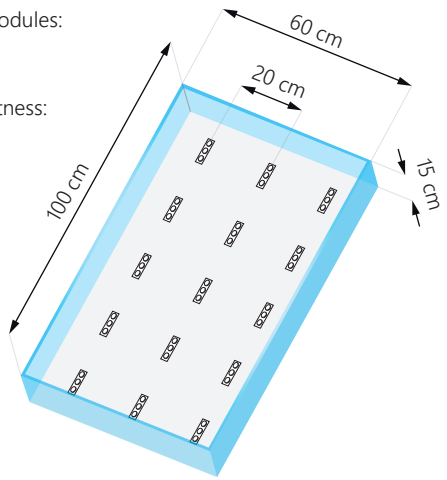
Application

from 10 cm depth large lightboxes and channel letters



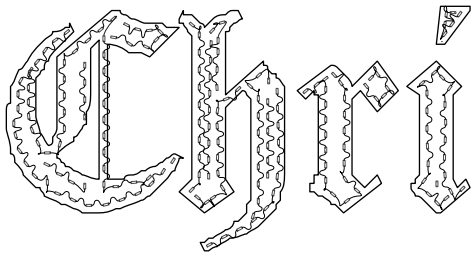
Number of modules:
15*

Surface brightness:
2250 lux



* the exact number of modules depends on the used materials

Town Hall Square / Leicester / England



69 mods	66 mods	27 mods	21 mods
66.2 w	63.4 w	25.9 w	20.2 w
61.7 mod/m	80.1 mod/m	64.9 mod/m	63.2 mod/m
1.119 m	0.824 m	0.416 m	0.333 m

Opticor³ by epiLED

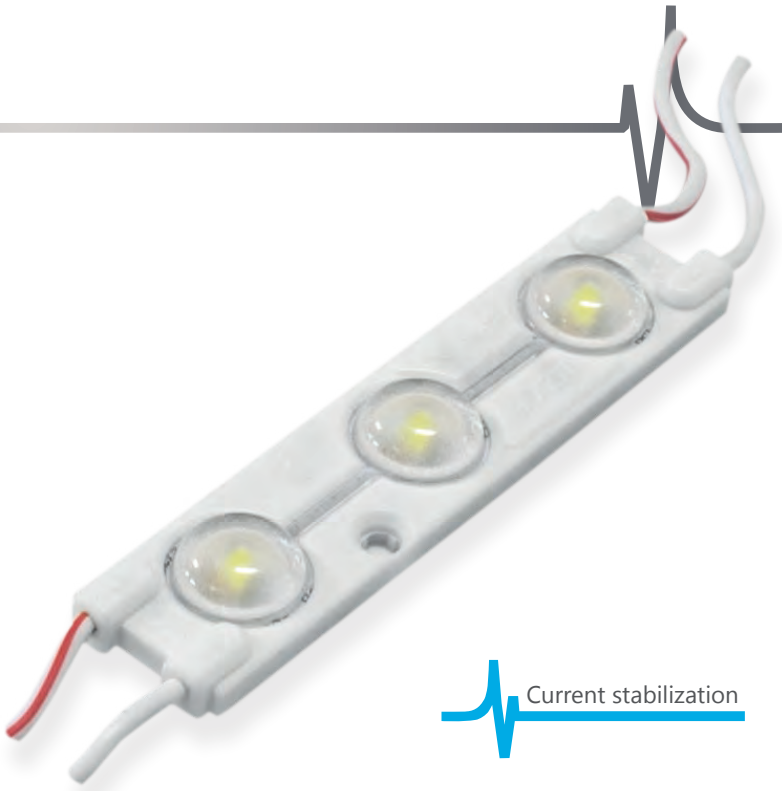
Experts' **choice**

Galeria Wnętrza / Wrocław / Poland

Luno by epiLED

Luno

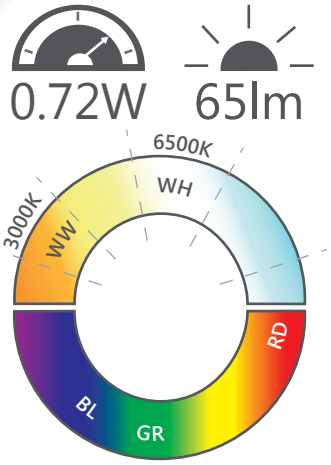
the blockbuster



Features

- selected SMD diode with high luminous efficiency
- shallow housing allows use in even lower light boxes
- professional 160° lens for excellent light scattering
- aluminum PCB for superb heat dissipation
- string of 40 pieces
- auxiliary assembly with 3M tape

Current stabilization



selected

160°

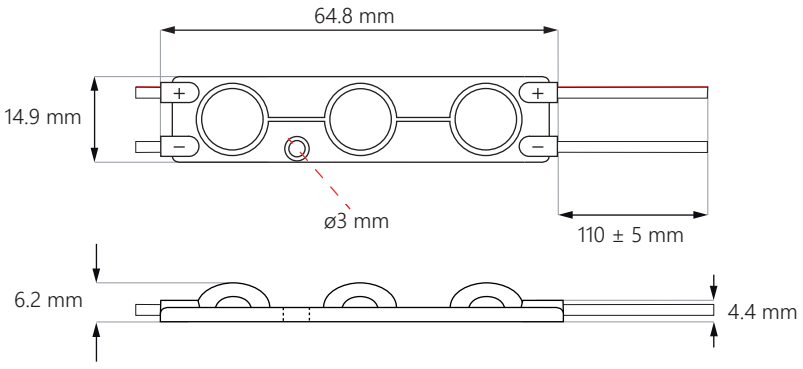
IP67

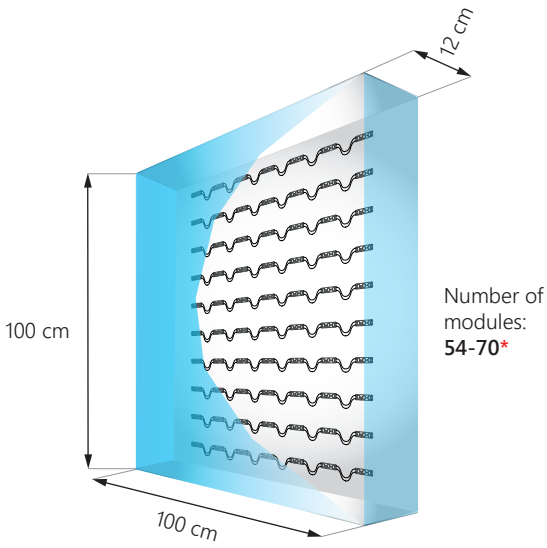
12V DC

3 Year Warranty

Application

from 6 cm depth light boxes, pylons, channel letters, large area advertising





Number of modules: **54-70***

* the exact number of modules depends on the used materials

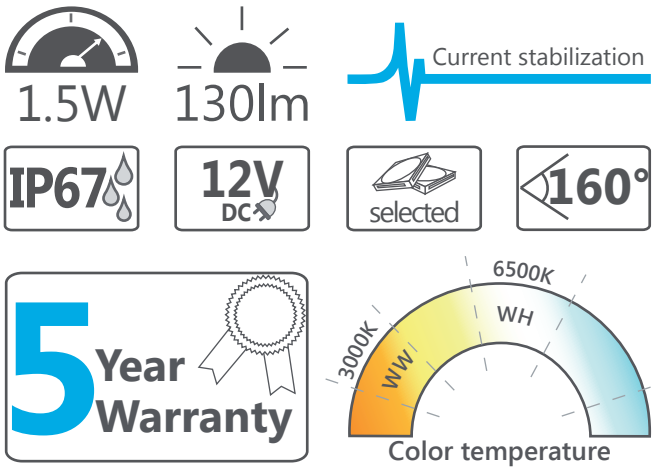
epiLED

Triglo

homogenous light output

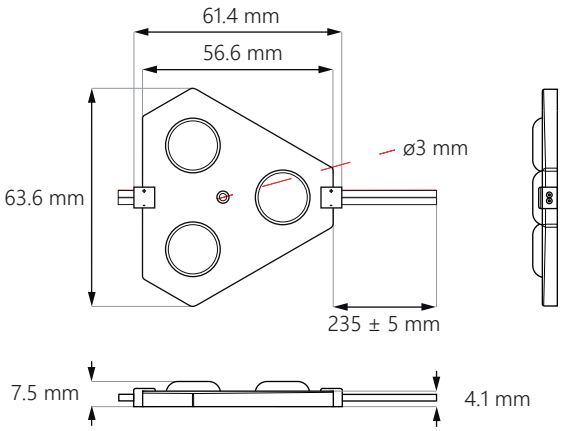
Features

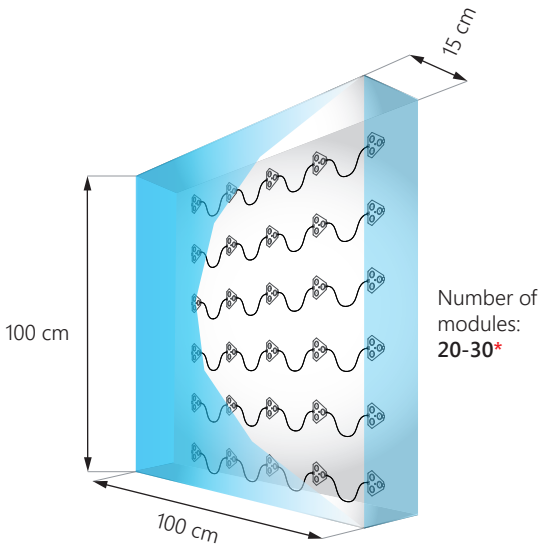
- selected SMD diode with high luminous efficiency
- unique distribution of LEDs can reduce the quantity of modules in ad
- professional 160˚ lens for excellent light scattering
- stabilizer — ensuring uniform brightness
- aluminum PCB for superb heat dissipation
- chain of 20 pieces
- auxiliary assembly with 3M tape



Application

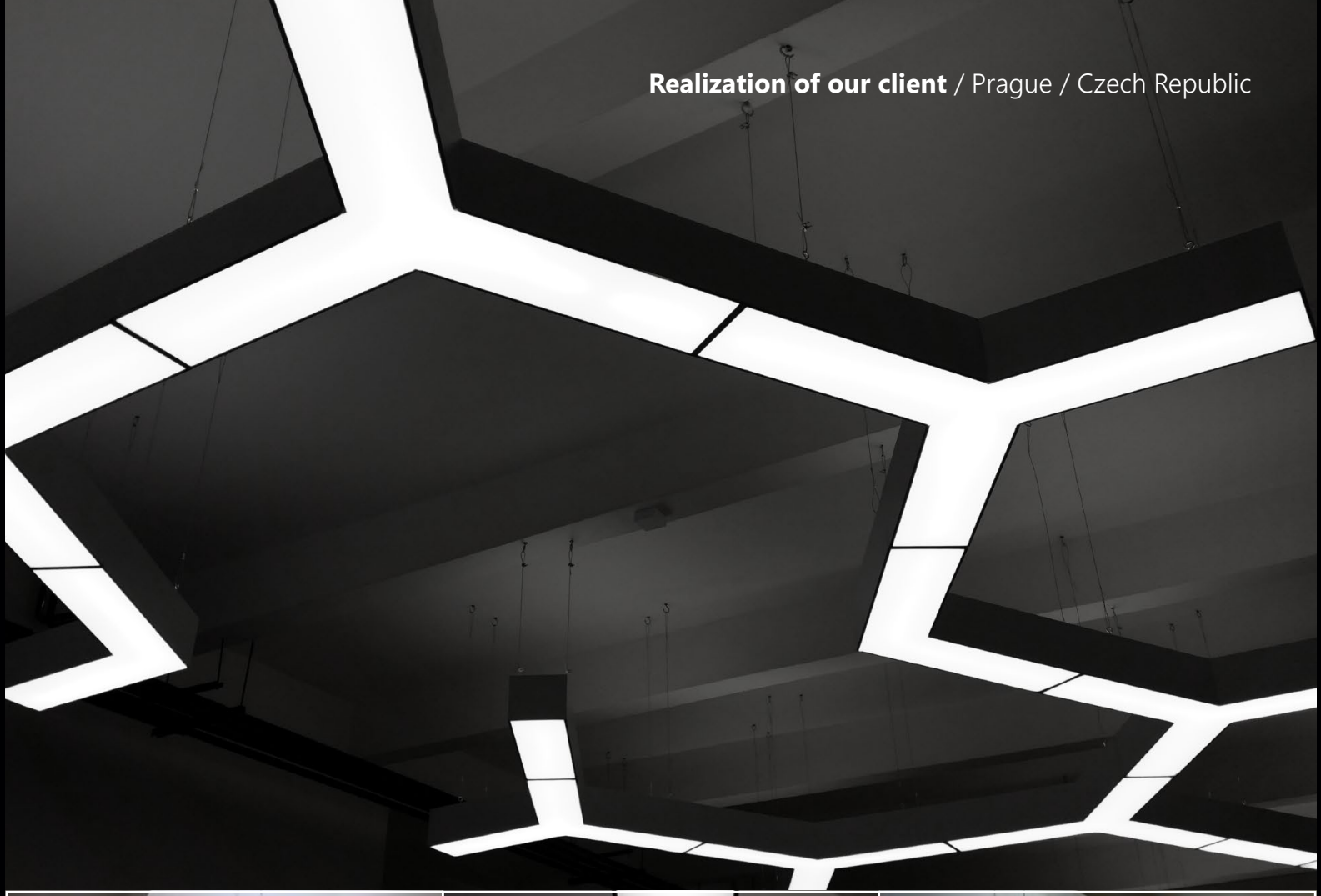
min. 12 cm depth light boxes, pylons, channel letters, large area advertising





* the exact number of modules depends on the used materials

Realization of our client / Prague / Czech Republic



Triglo by epiLED

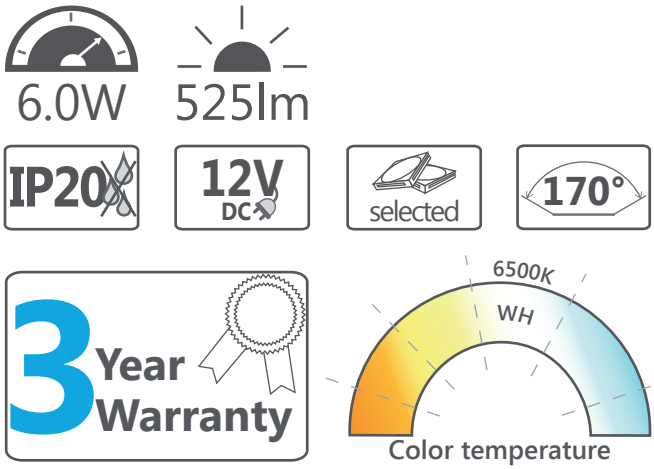
Planar Board by epiLED

Planar Board

extra slim lightboxes

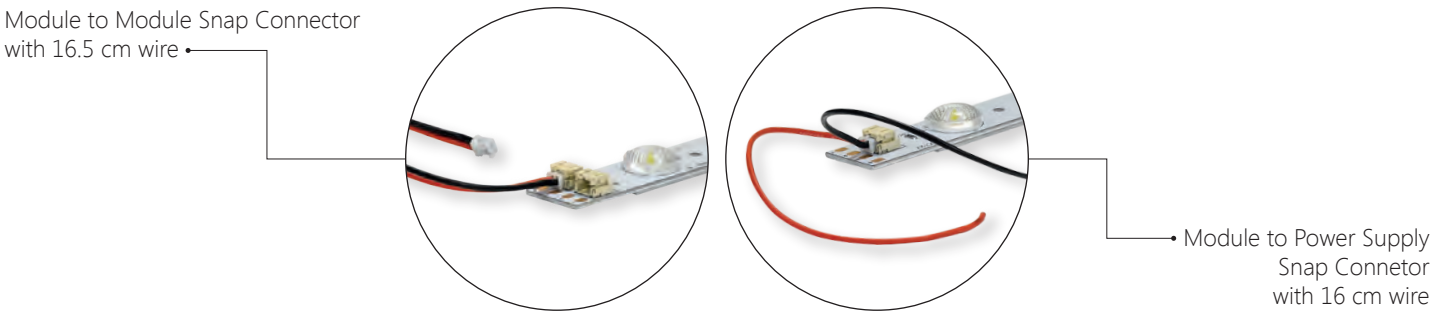
Features

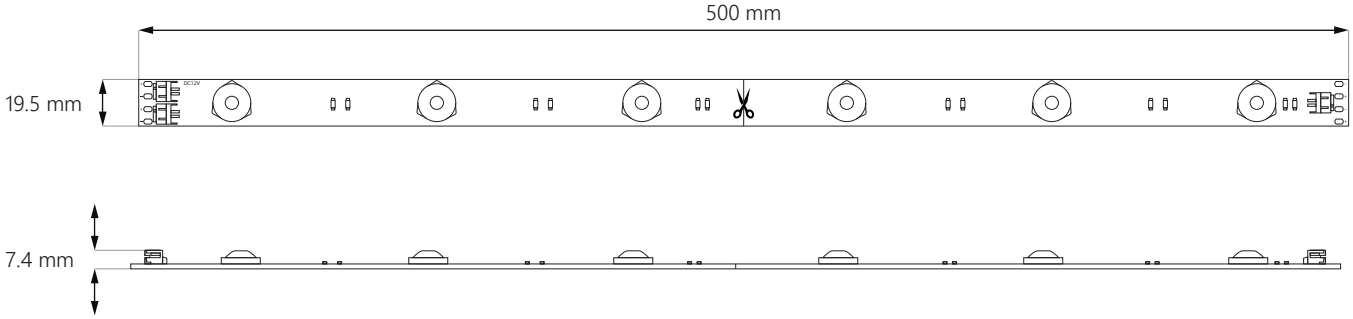
- selected LEDs — high-efficiency diodes in a housing with heat sink, LM-80's compatible, binned for luminous flux, color temperature / wavelength and forward voltage
- bigger LED chip — more brightness, greater surface area = longer lifespan
- professional 170° lens
- exposed aluminum PCB — even greater heat dissipation
- chain of 5 pieces
- auxiliary assembly with 3M tape



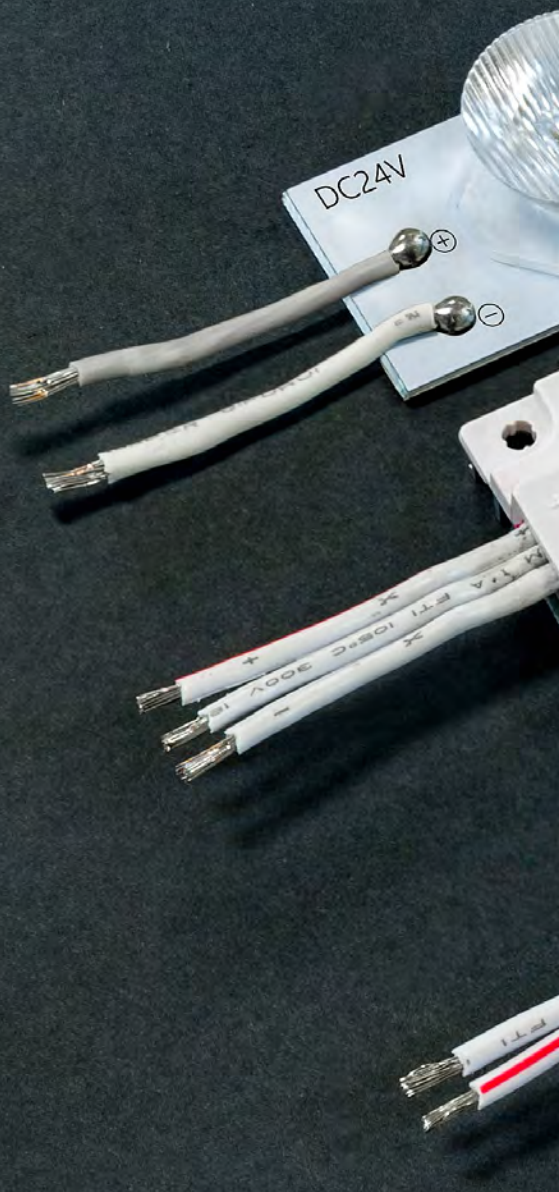
Application

even from 3 cm depth large lightboxes, line lighting and commercial standing lighting





EDGE LIGHTING MODULES



24 Elypso Board 21
25 Elypso 1.5W
26 Elypso 3W
27 Elypso 4.5W

lypso Board 21
epiLED
RoHS
DC24V
IC1
L1
R1
R2
C3
C1
D2
15W
RoHS
DC 12V

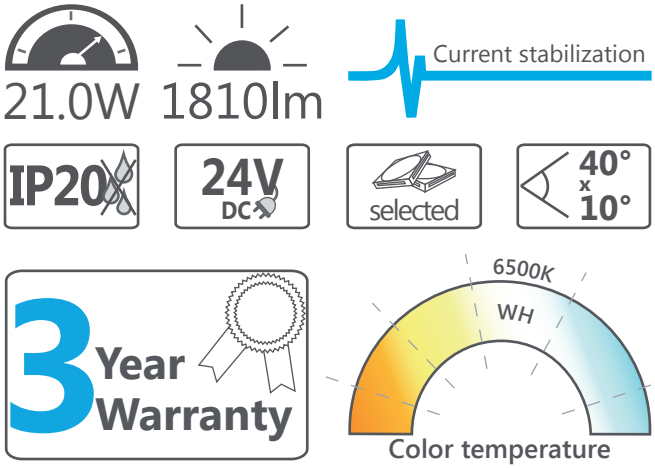
Elypso Board 21

NEW

best for 5-8 cm

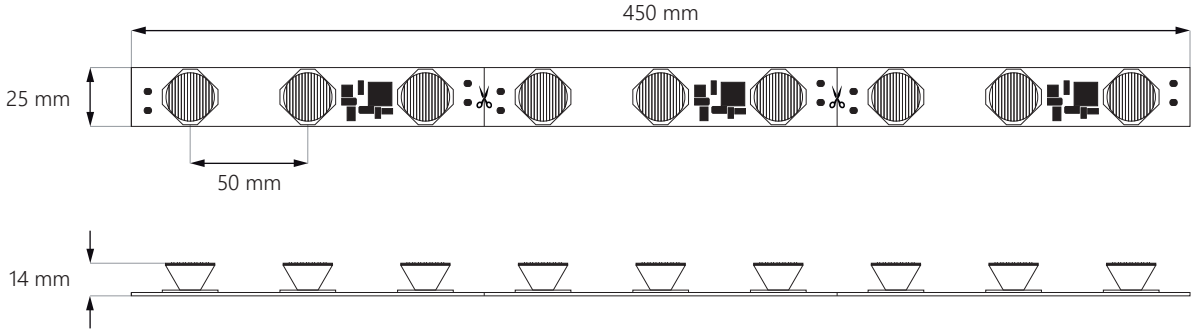
Features

- binned power SMD diode with high luminous efficiency
- special lens allows the side installation
- stabilizer — ensuring uniform brightness
- aluminum PCB/plate for superb heat dissipation
- chain of 6 pieces **(can be cut every three lenses for the WH module)**
- ESD protection: Contact 4KV, Air 8KV
- auxiliary assembly with 3M tape



Application

from 5 cm depth lightboxes, pylons, semaphore boxes, large area advertising (unilateral and bilateral)

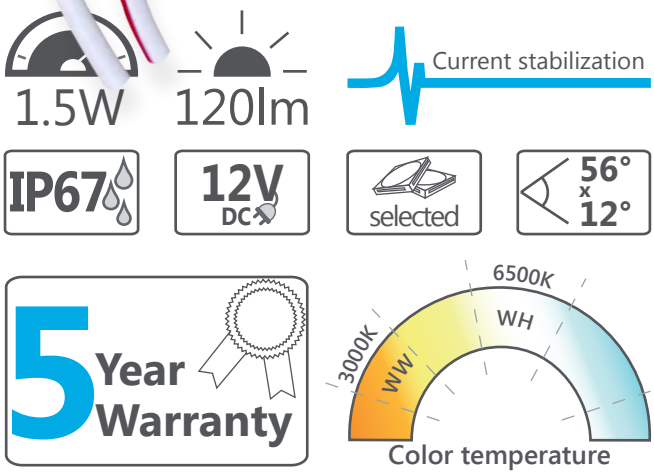


Elypso 1.5W

up to 2 meters edge light

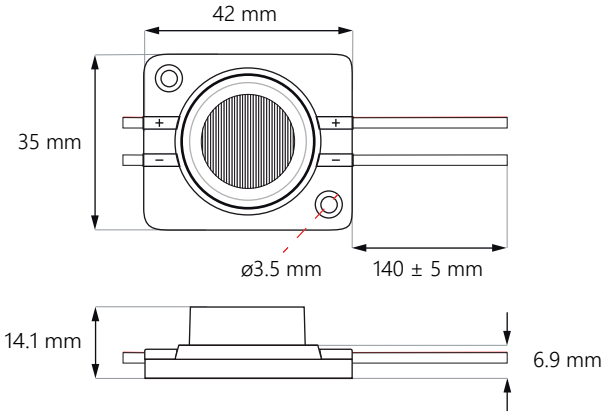
Features

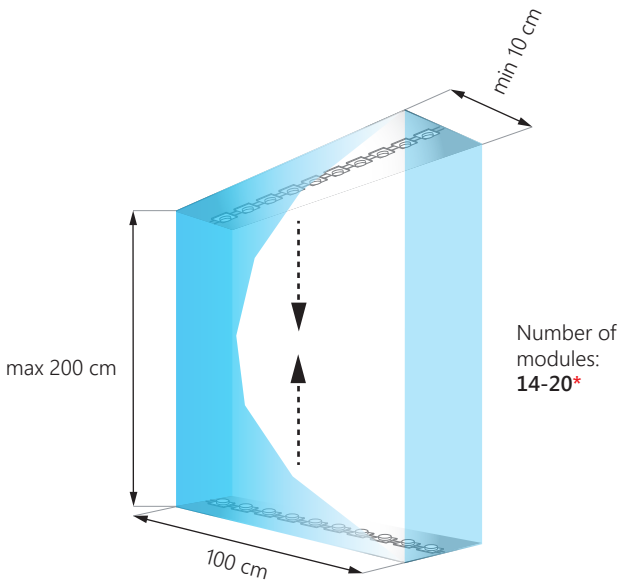
- binned power SMD diode with high luminous efficiency
- special lens allows the side installation
- stabilizer — ensuring uniform brightness
- aluminum PCB for superb heat dissipation
- chain of 30 pieces **(can be cut every one piece for the WH module)**
- auxiliary assembly with 3M tape



Application

lightboxes, pylons, semaphore boxes, large area advertising (unilateral and bilateral)

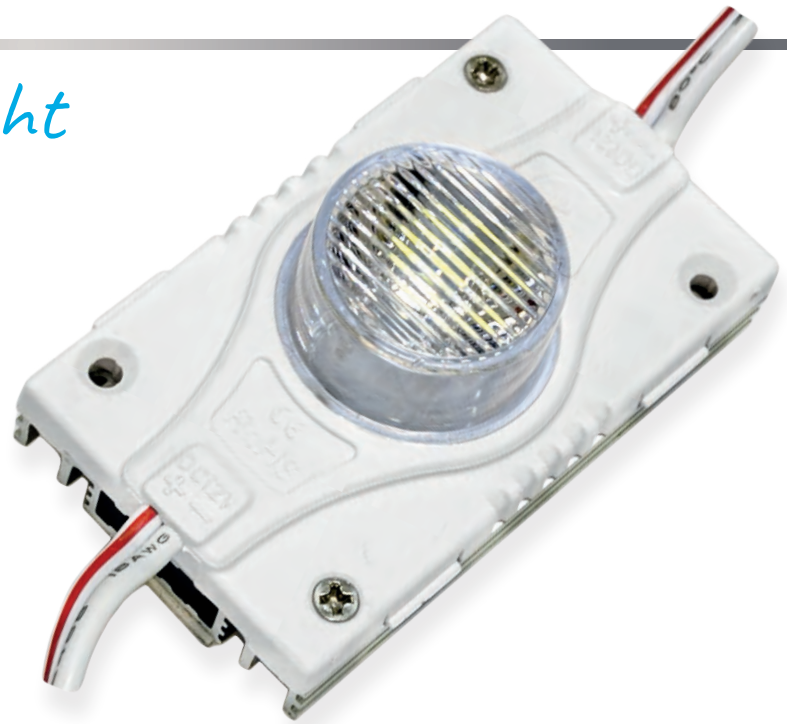




* the exact number of modules depends on the used materials

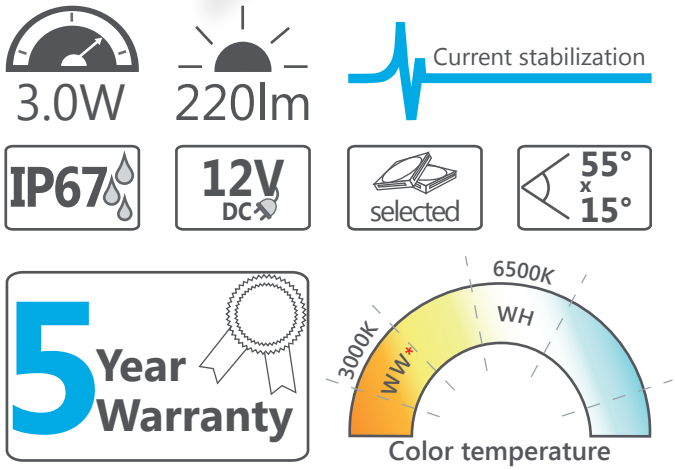
Elypso 3.0W

up to 3,5 meters edge light



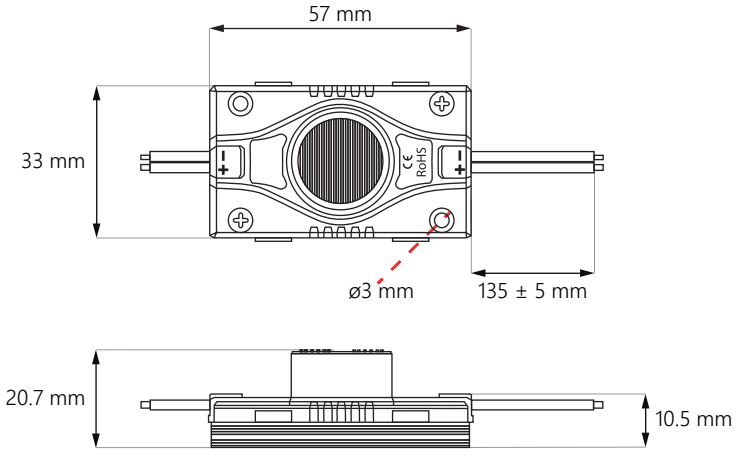
Features

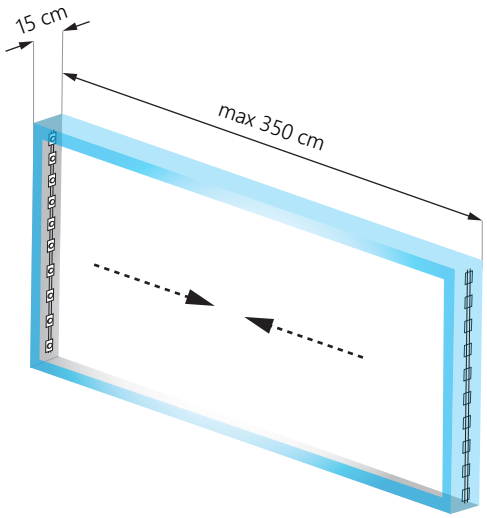
- binned SMD LED diode with high luminous efficiency
- heatsink provides passive cooling for diode
- special lens allows the side installation
- stabilizer — ensuring uniform brightness
- aluminum PCB for superb heat dissipation
- chain of 20 pieces **(can be cut every single piece)**
- auxiliary assembly with 3M tape



Application

12-25 cm depth light boxes
(unilateral and bilateral)





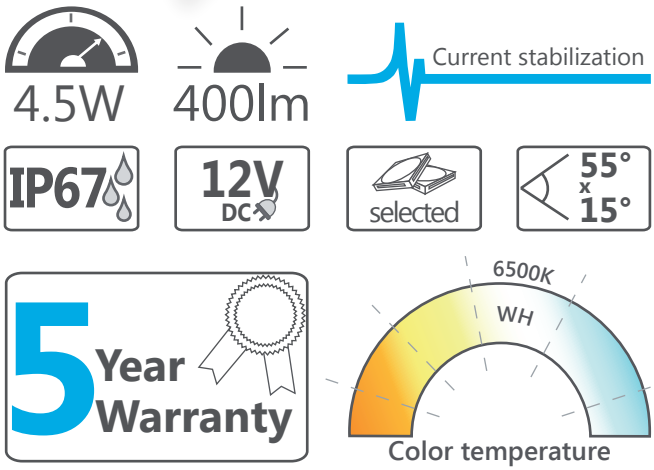
* Warm White available as Elypso 2.8W

Elypso 4.5W

extra strong

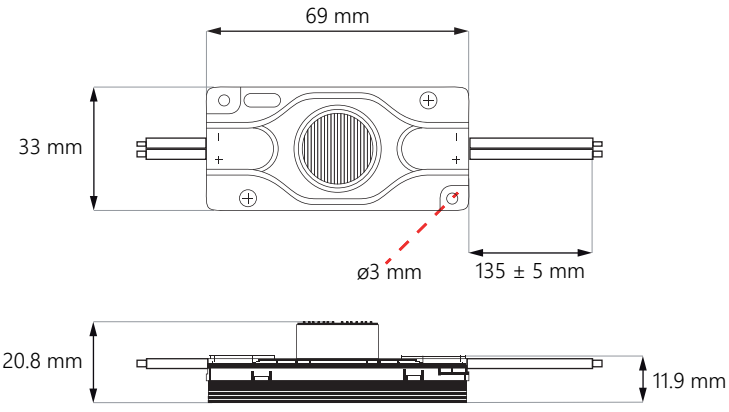
Features

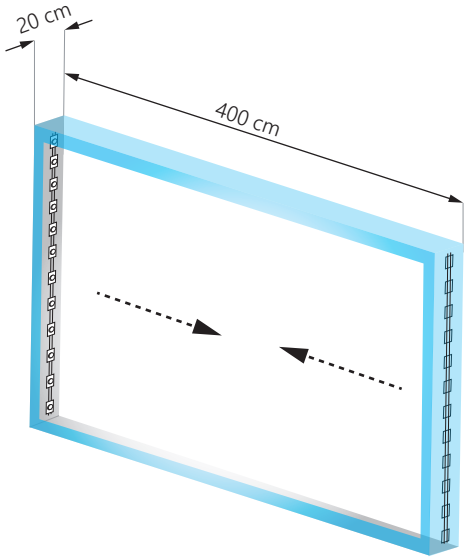
- binned SMD LED diode with high luminous efficiency
- heatsink provides passive cooling for diode
- special lens allows the side installation
- stabilizer — ensuring uniform brightness
- aluminum PCB for superb heat dissipation
- chain of 15 pieces **(can be cut every 3 pcs)**
- auxiliary assembly with 3M tape



Application

15-30 cm depth light boxes
(unilateral and bilateral)





LED Strips

PREMIUM

- high class LED diodes binned uniform light output
- 24 months warranty
- self-adhesive 3M tape
- double backing PCB

STANDARD PLUS

- diodes with high luminous efficiency
- 12 months warranty
- self-adhesive 3M tape
- great value for the price

ECO

- standard diodes
- self-adhesive tape

EdgeStrip

EMPI-3D

EMPI

EMPI-d

EMPA

EMPA-d

EMPS
side view

EMPS-d
side view

EMHI
IP65

EMPT-RGB

EMPT-dRGB

EMPT-DBD

FlexPI

FlexPT-RGB

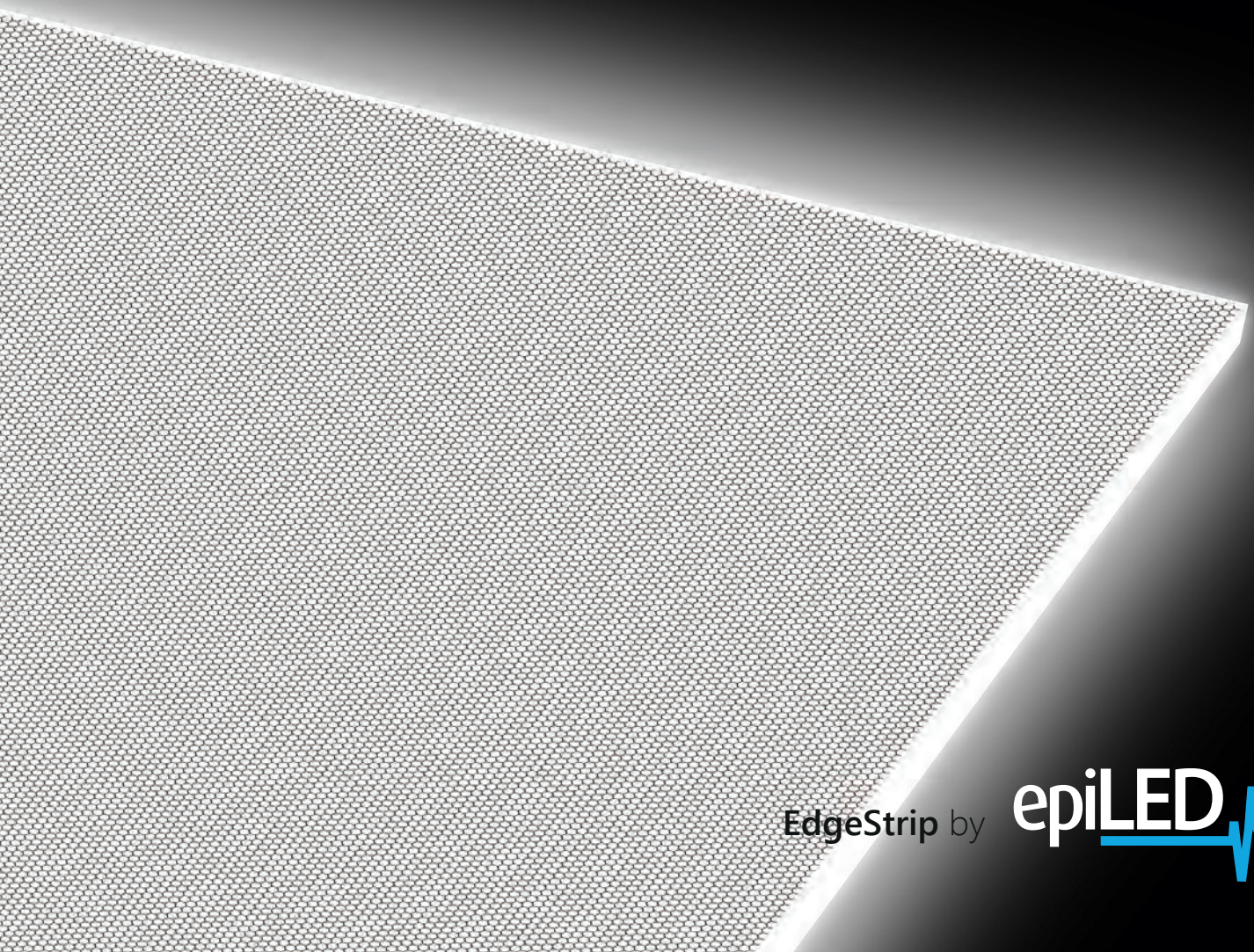
FlexPT-dRGB

ecoPF

SKY TOWER

Interior lighting in the main lobby in Sky Tower / Wrocław / Poland

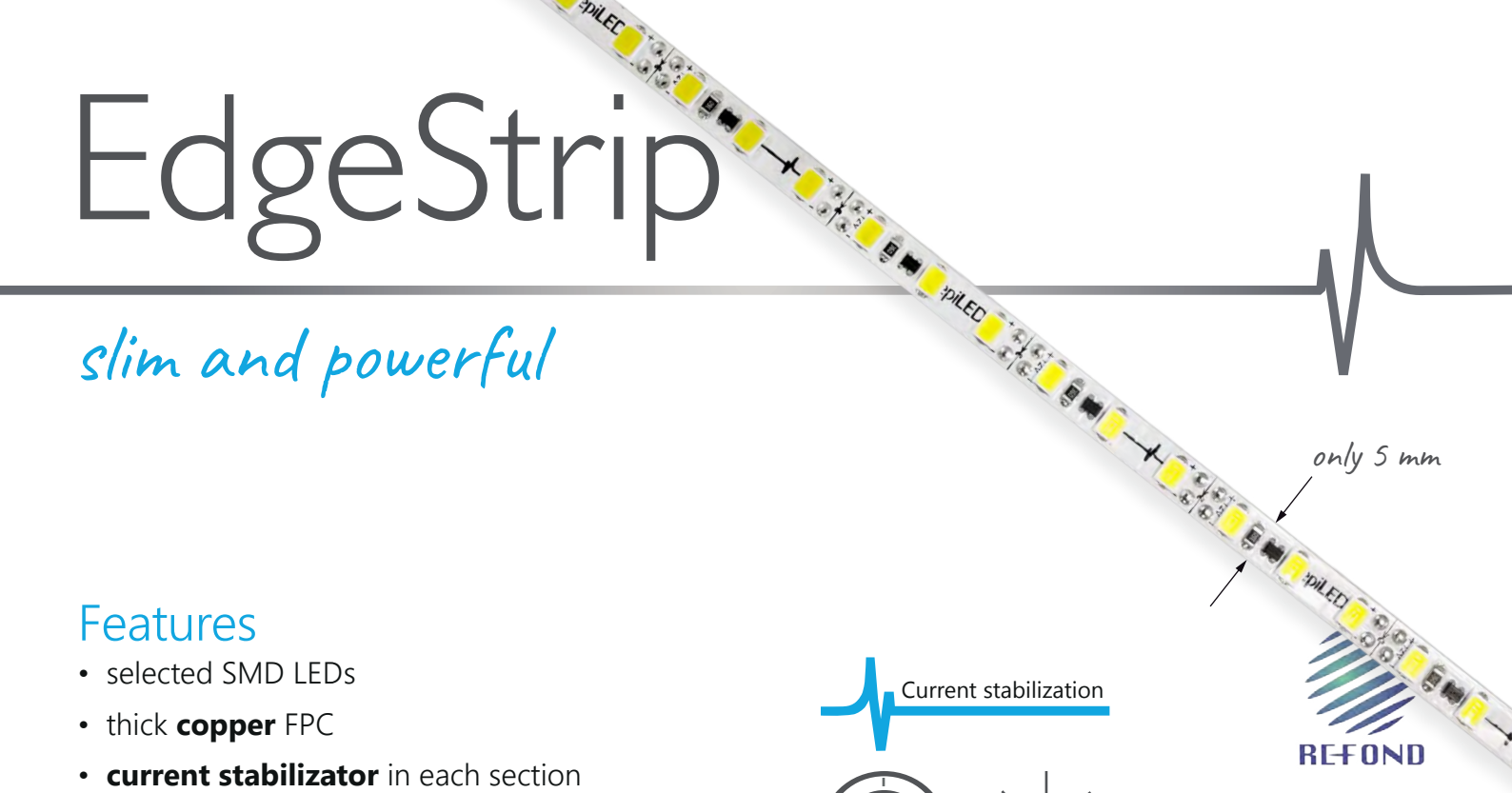
Edge lighting for **acrylic glass**



EdgeStrip by epiLED

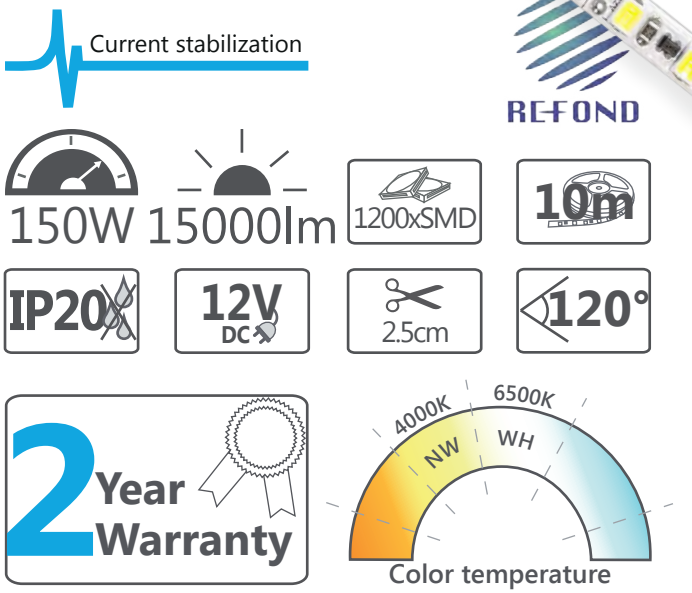
EdgeStrip

slim and powerful

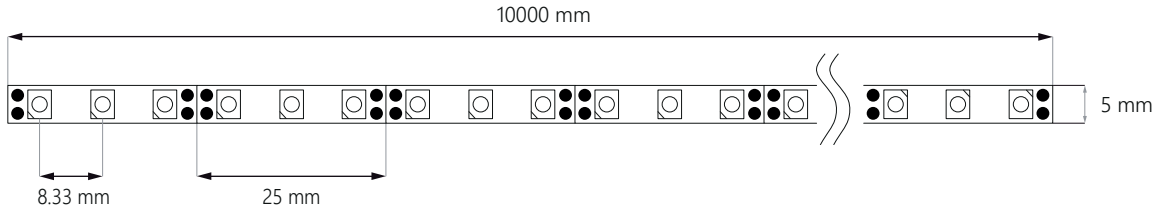


Features

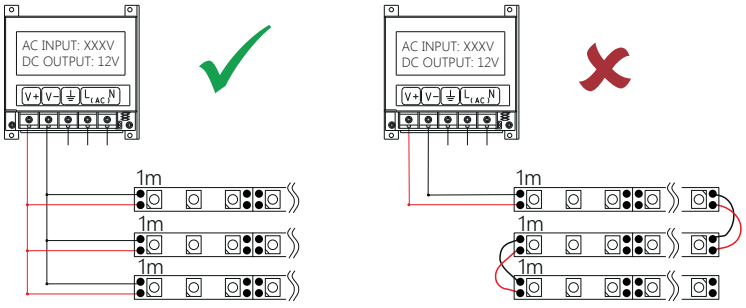
- selected SMD LEDs
- thick **copper** FPC
- **current stabilizator** in each section
- LEDs density — 120 LEDs / meter
- cuttable every 2.5 cm
- color temperature:
  NW — neutral white (~4000K)
  WH — white (~6500K)
- **heat sink** required for proper work
- auxiliary assembly with tape 3M



Dimensions



Installation Instruction



Important

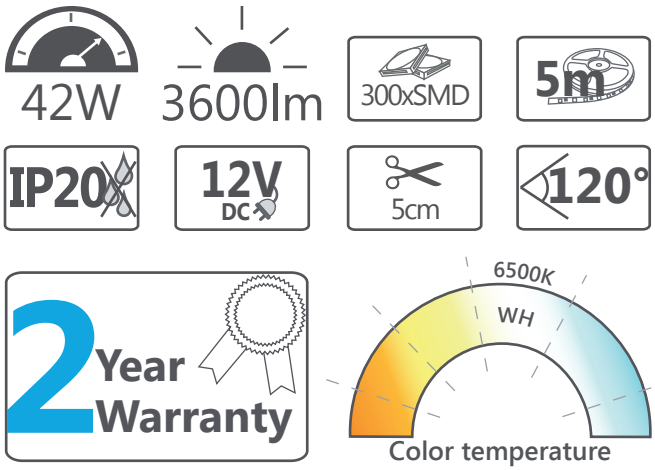
- LED strip of specialized nature. It requires a special condition of installation and application. **Failure to follow the warnings and instructions could result in damage to product not covered under warranty.**
- maximum power section **= 1 m**
- cross section of the heat sink **≥ 25 mm²**

EMPI-3D

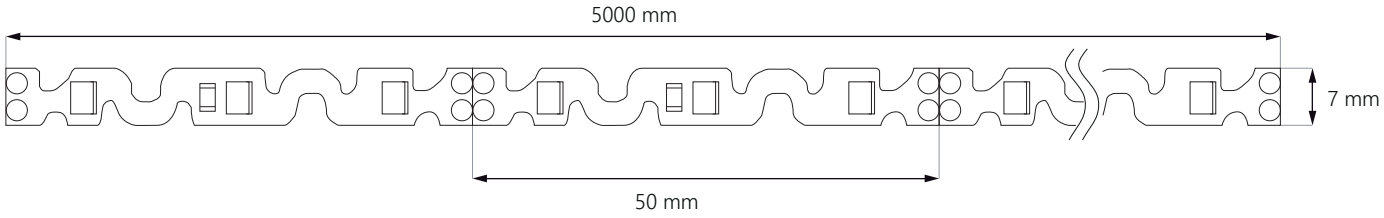
3D bendable flexible strip

Features

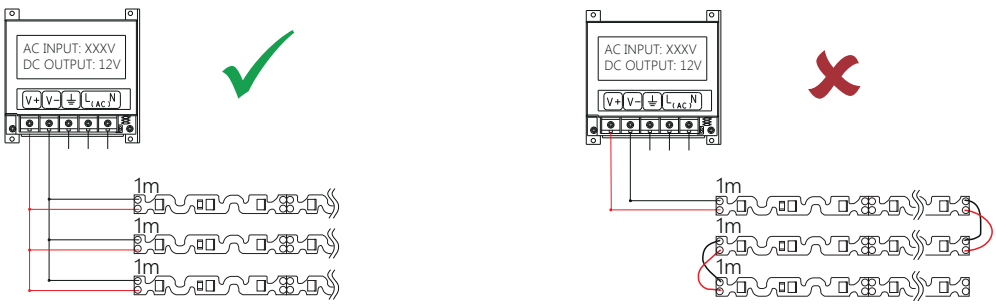
- high class LED diodes by REFOND Optoelectronics binned uniform light output diodes with high luminous efficiency
- Epistar LED chip
- double backing PCB
- LEDs density — 60 LEDs / meter
- cuttable every 5 cm
- **maximum power section = 1 m**
- color temperature:
  WH — white (~6500K)
- auxiliary assembly with tape 3M

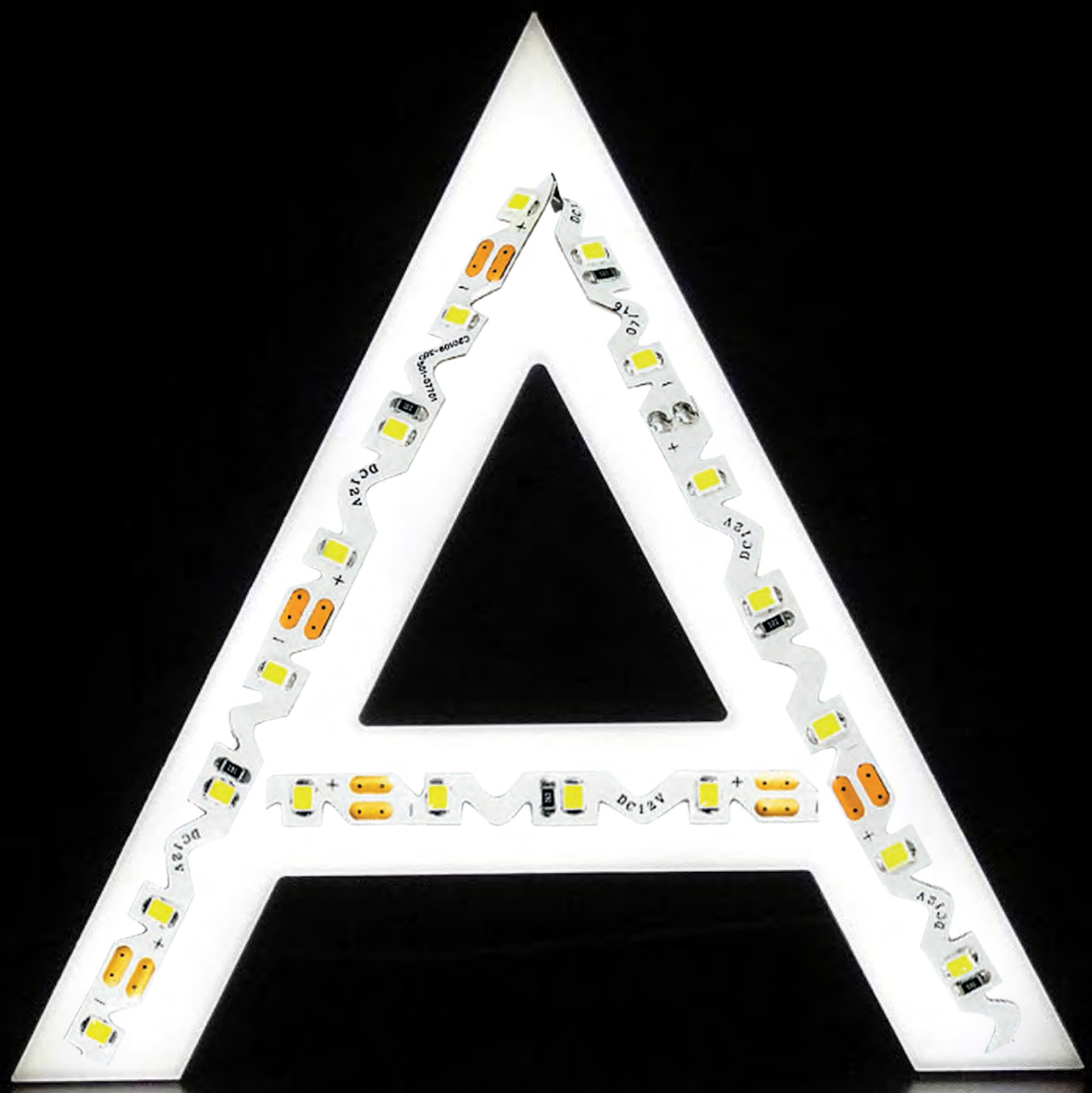


Dimensions



Installation Instruction





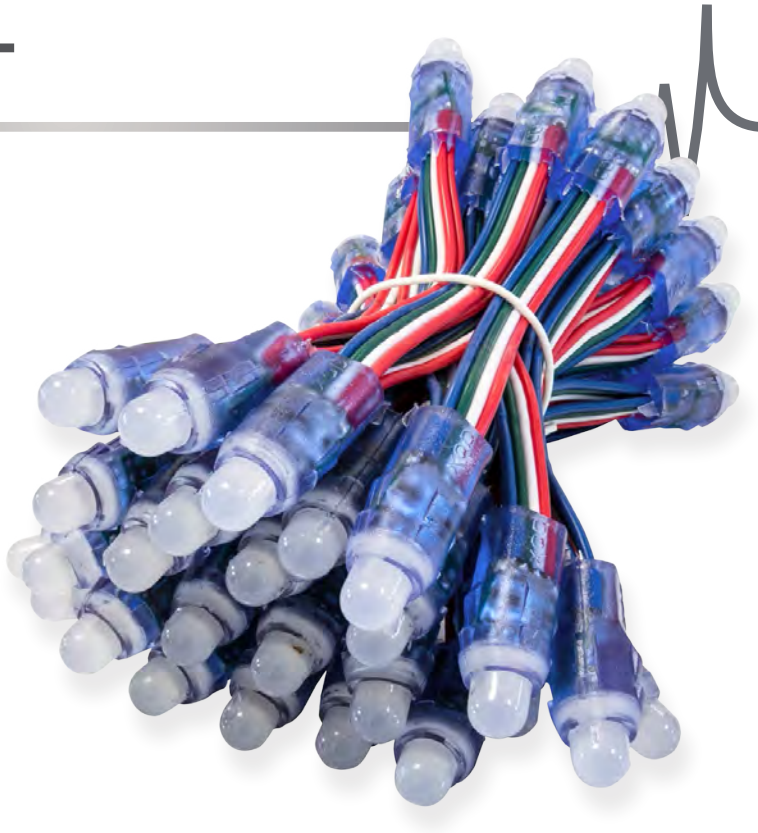
3 dimension **flexibility**

EMPI-3D by epiLED

SET
ANY
COLOR
YOU
WANT
epiPIXEL by epiLED

epiPIXEL

set any color you want



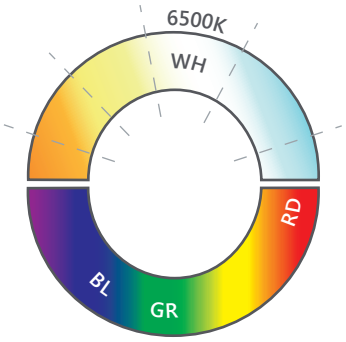
Features

- superbright SMD top LED — high brightness output, no spot and shadow
- EPISTAR LED chip — good color uniformity, long life and energy saving
- different dynamic effects — gradient, jumping, chasing, scanning and many more
- used in all kinds of plate punching — i.e. electrolytic plate, aluminum-plastic plate, iron plate, stainless steel plate, etc.)
- chain of 50 pieces
- fast & easy installation

EPISTAR

5V DC

120°



RGB

IP66

2 Year Warranty

Accessories

Our offer includes also compatible with the epiPIXEL accessories:

- Power Supplies (Page **38-39**)
- Controllers (Page **36**)

Application

- decorative lights for events, exhibitions
- outdoor advertising

MODEL	epiPIXEL - mono	epiPIXEL - RGB	epiPIXEL - DBD
OUTPUT VOLTAGE	5 V DC		
BEAM ANGLE	120°		
POWER/PCS	0.1 W	0.3 W	
DRIVE CURRENT/PCS	20 mA	60 mA	
LED TYPE	9 mm single color LED	12 mm RGB LED	
COLORS	WH, RD, BL, GR	Full color	
DIMENSIONS	ø9 mm x 20 mm	ø12 mm x 31 mm	ø12 mm x 38 mm
WORKING TEMP.	-35 ÷ +55°C		
LIFESPAN	~50 000 h		
IP RATING	IP66		

epiLED

Controllers

EC-4ZONE-RGB-CONTROLLER

RGB color changing in 4 zones
dimming
9 light effects

6A 12/24V RF WiFi RGB ~30 m

EC-Touch

RGB color changing
dimming
20 light effects

~30 m

6A 12V/24V RF RGB

EC-4ZONE-RGB-REMOTE

255 colors
9 modes

2 x AAA ~30 m

EC-Mini

19 light effects
dimming (5 levels)
speed adjustment

5A 12V/24V RGB

EC-DMX-Driver

convert C/A signal DMX
256-level brightness
full-color control

5A 12/24V RGB

ECD-4ZONE-CONTROLLER

dimming in 4 zones

2 x 5A 12/24V RF WiFi

ECD-RF

dimming

~100 m

8A 12/24V RF

ECD-4ZONE-REMOTE

rotating wheel

2 x AAA ~30 m

ECD-Mini

switcher/dimmer
dimming (8-levels)
adjustment speed

2A 5 ÷ 24V

EC-DBD

83 light effects
speed adjustment (100 steps)

5 ÷ 24V RF RGB IC 2048

EC-DBD-SSD

individual lighting effects
dedicated software
record programs on the SD card

5 ÷ 24V RGB IC 2048

EC-AMP-Mini

amplifier

3 x 4A 5 ÷ 24V RGB

EC-Amplifier

amplifier

3 x 8A 12/24V RGB

The **most innovate** product of RemaDays 2017

THE PRIZE FOR INNOVATIONS

RemaDays WARSAW
15–17.02.2017
SEE YOU
AT REMADAYS WARSAW
ONE OF THE WORLD'S BIGGEST
ADVERTISING FAIR
13 750 20 000 35 000
WARSAW – NADARZYN

scan the code
to see our offer

Power Supplies

epiLED + MEAN WELL

We are the official distributor of **Mean Well** in Poland.

LPV/LPH series

- protections: short circuit / over current / over voltage / over temperature*
- high reliability & low cost
- fully encapsulated with IP67 level
- suitable for LED-based decorative/architectural lighting, LED stage and LED electronic displays
- **3 years warranty**

LPF series

- protections: short circuit / over current / over voltage / over temperature
- built-in active PFC function
- compliance to worldwide safety regulations for lighting
- fully encapsulated with IP67 level
- suitable for LED lighting and moving sign application
- **5 years warranty**

* available in LPH series

LRS series

- protections: short circuit / over current / over voltage / over temperature
- most economical with safety certificates
- AC input range selectable by switch
- ultra compact and 1U low profile
- suitable for industrial applications
- **3 years warranty**

ELG series

- protections: short circuit / over current / over voltage / over temperature
- optimal price-performance ratio with PFC
- grounded housing
- meet 6kV surge immunity level
- suitable for LED lighting and moving sign application
- compliance to worldwide safety regulations for lighting
- **5 years warranty**

HLG series

- protections: short circuit / over current / over voltage / over temperature
- high efficiency with PFC
- withstand 5G vibration test
- meet 4kV surge immunity level
- dedicated for harsh environment
- **7 years warranty**

LED Connectors

WAGO-2X4-221-412
2-conductor connector with operating levers

WAGO-3X4-221-413
3-conductor connector with operating levers

WAGO-5X4-221-415
5-conductor connector with operating levers

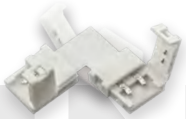
SZ-ZA8/ZA8
Strip to Strip Snap Connector for 8 mm LED Strips

SZ-ZA10/ZA10
Strip to Strip Snap Connector for 10 mm LED Strips

SZ-ZARGB/ZARGB
Strip to Strip Snap Connector for 10 mm RGB LED Strips

SZ-L-ZA8/ZA8
Strip to Strip Angle L Shape Connector for 8 mm LED Strips

SZ-L-ZA10/ZA10
Strip to Strip Angle L Shape Connector for 10 mm LED Strips



SZ-L-ZARGB/ZARGB
Strip to Strip Angle L Shape Connector for 10 mm RGB LED Strips

SZ-KOS/G5.5
2.1/5.5 Female Connector with screw terminal for wiring

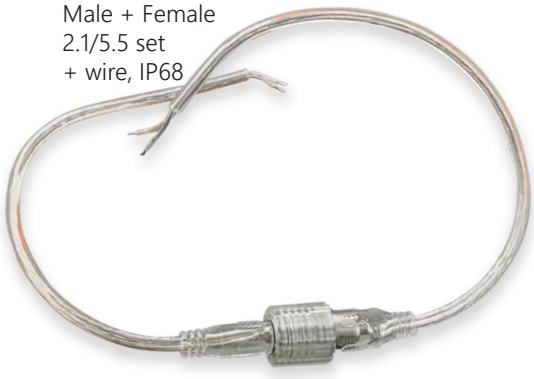
SZ-KOS/W5.5
2.1/5.5 Male Connector with screw terminal for wiring

SZ-IR/P + SZ-COMB
4-pin comb socket + 33 cm wire & male comb connector

SZ-G5.5/P (white)
DC 2.1/5.5 socket + 15 cm wire (white)

SZ-G5.5/P
DC 2.1/5.5 socket + 15 cm wire (black)

SZ-KON-5.5-IP68 KPL
Male + Female 2.1/5.5 set + wire, IP68

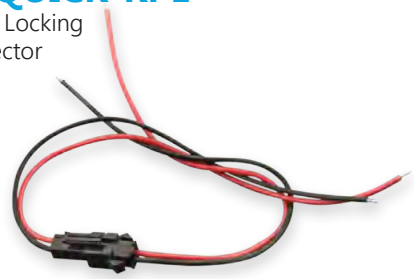


& Accessories

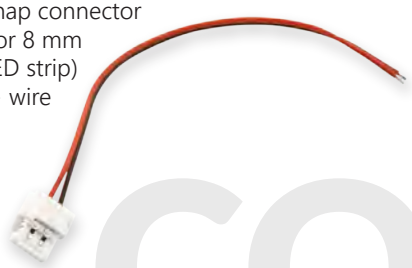
SZ-W5.5/P (white)
DC 2.1/5.5 plug + 15 cm wire (white)

SZ-W5.5/P
DC 2.1/5.5 plug + 15 cm wire (black)

SZ-QUICK-KPL
Pigtail Locking Connector



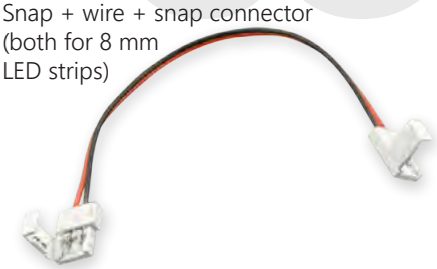
SZ-ZA8/P
Snap connector (for 8 mm LED strip) + wire



SZ-ZA10/P
Snap connector (for 10 mm LED strip) + wire

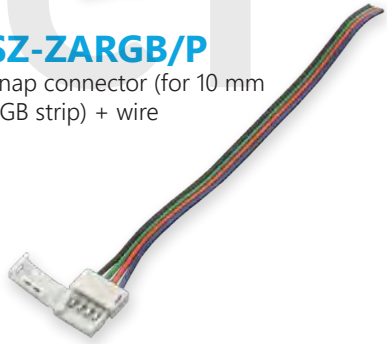
SZ-ZA8/P/G5.5
Snap connector + wire + DC 2.1/5.5 socket (for 8 mm LED strip)

SZ-ZA8/P/ZA8
Snap + wire + snap connector (both for 8 mm LED strips)



SZ-ZA10/P/ZA10
Snap + wire + snap connector (both for 10 mm LED strips)

SZ-ZARGB/P
Snap connector (for 10 mm RGB strip) + wire



SZ-ZARGB/P/ZARGB
Snap + wire + snap connector (both for 10 mm RGB strips)

Single / Multi-core wires
100% copper
Polish product
12/24V DC and 230V AC

Maintenance electronics
protecting electronics from weather conditions

LED CONNECTORS ACCESSORIES

LED Wizard

LED Wizard Software

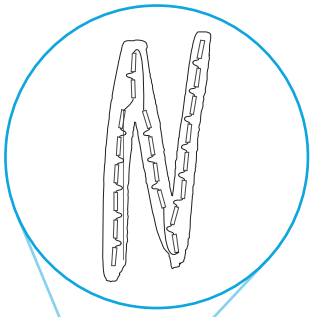
epiLED is the **official partner** of Aries Graphics International, the producer of LED Wizard software. We use and distribute this state of the art software. The customers worldwide obtain the complete estimate for their lightboxes and channel letters. LED Wizard gives the entire industry a clear, standardized path towards developing the best practices.

Official distributor of LED Wizard

Having LED Wizard 7 in house gives you the ability to present more options to your customer, since you can create and submit multiple LED systems in a consistent format. Perhaps you want to provide a choice for your customer in terms of cost/quality, brightness, or warranty. **Contact epiLED** to purchase your own LED Wizard license and start creating accurate and professional looking layouts for your business.

Complex valuation includes:

- Choosing the appropriate module from the epiLED's offer
- Optimal arrangement of LED modules in light box, channel letter, etc.
- Choosing the appropriate power supply with reserve capacity
- Arrangement of mounting holes
- The cost of materials used in the project

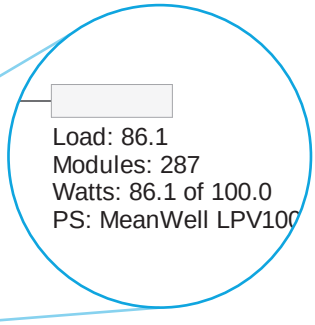


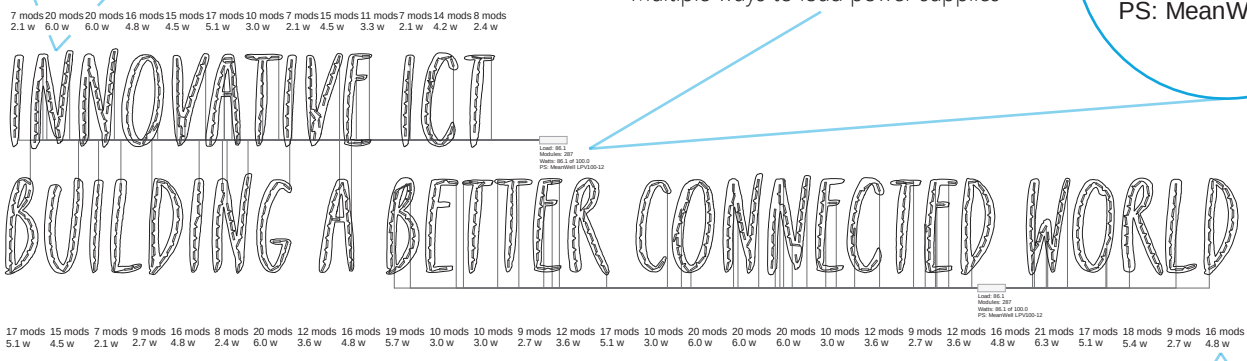
Auto population for cabinet

- Hybrid Layout — one inline plus parallel runs
- Parallel layouts — vertical, horizontal, angled
- Any size or shape, not just rectangles

Loaded & wired power supplies

- User easily selects, positions and loads
- Summary information can be customized
- Multiple ways to load power supplies

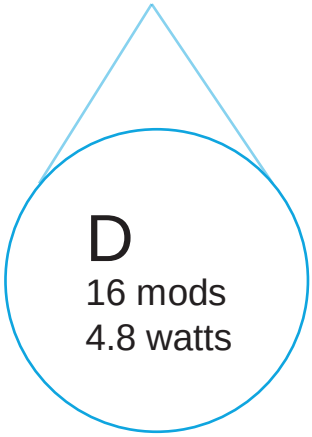


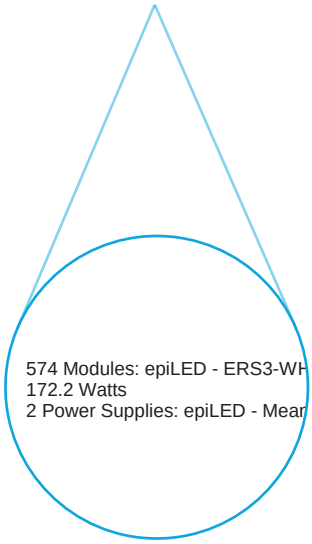


574 Modules: epiLED - ERS3-WH (3x3528)
172.2 Watts
2 Power Supplies: epiLED - MeanWell LPV100-12

Components stats

- Per letter and/or sign cabinet
- Data can be customized, including metric units
- Easily adjust sizing, spacing and positioning





Overall stats

- Summary data for the entire job
- Includes total modules, watts and power supplies
- Can be further customized, scaled and positioned

epiDBD System

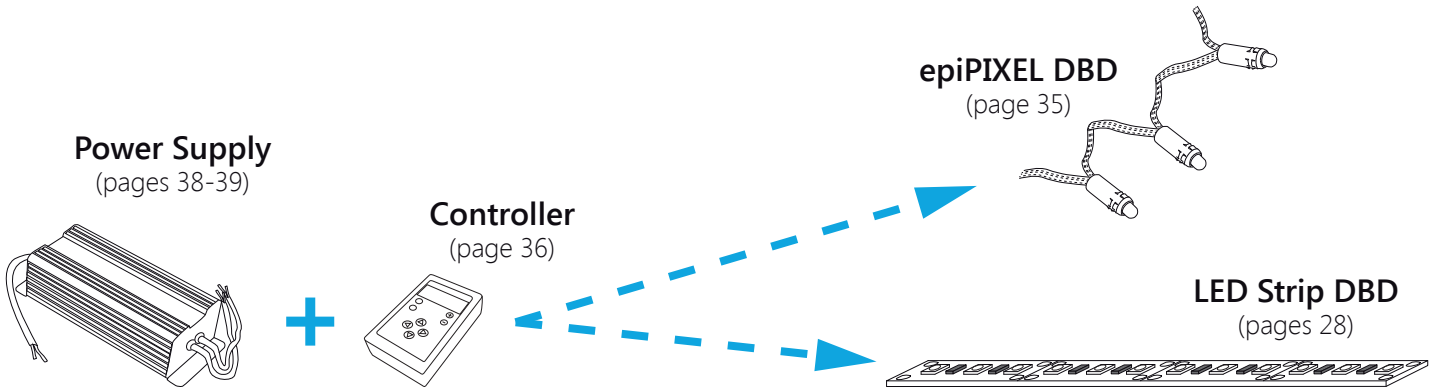
epiDBD

epiDBD stands for **dot-by-dot control ability** to steer individual LED points on RGB device.

Imagine the RGB system, where you can **create anything** from a flowing effect on linear LED stripe up to a full scale LED display mounted on your POS stand.

You can choose simple products with predefined programs or use computer based application to **design special effects** well suited to actual application and **amaze your customers.**

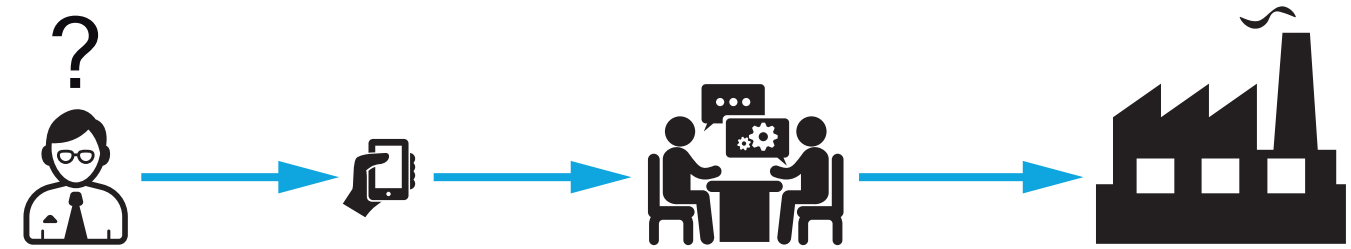
Operating diagram



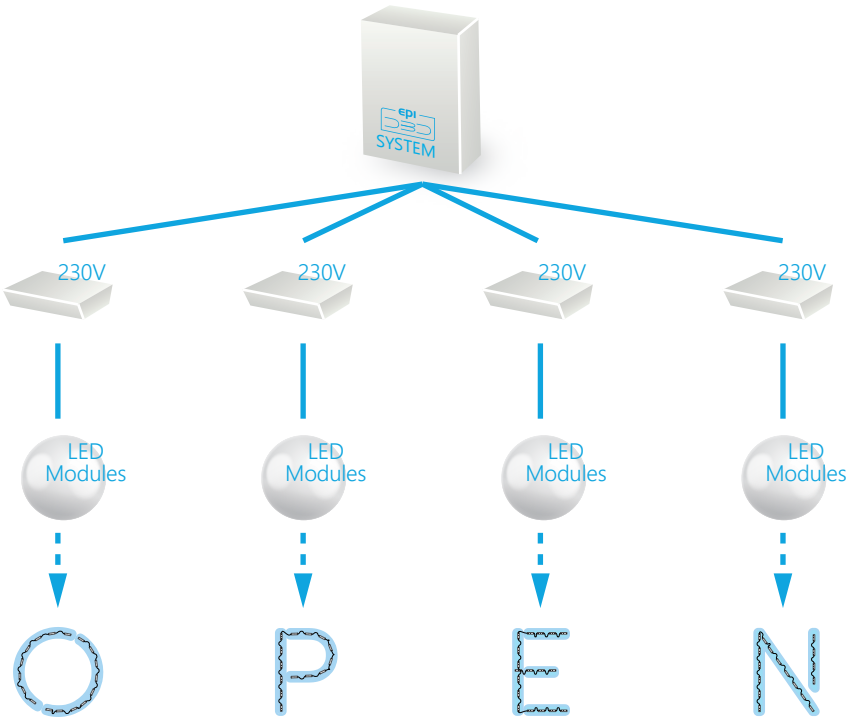
Application

scan the code
to see the video

Create **individual** signage system



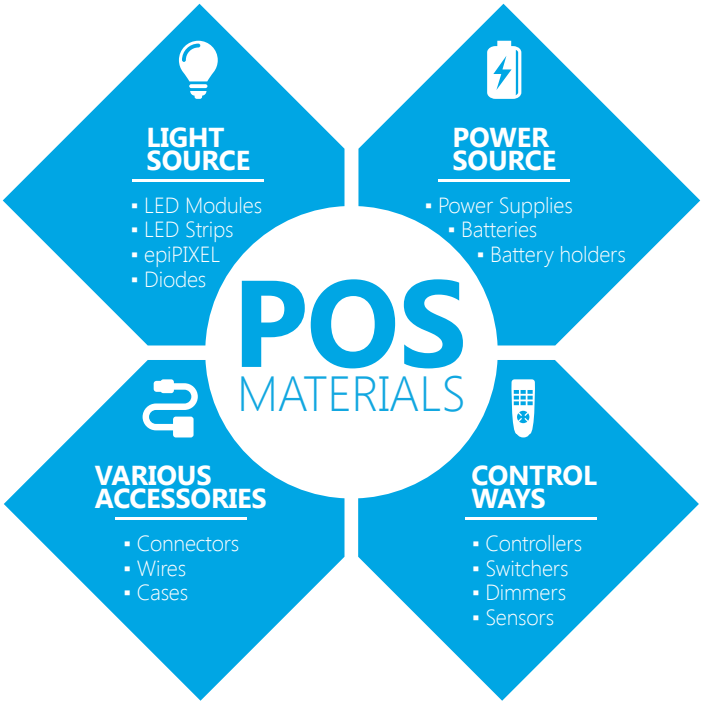
epiDBD **SYSTEM** for signage



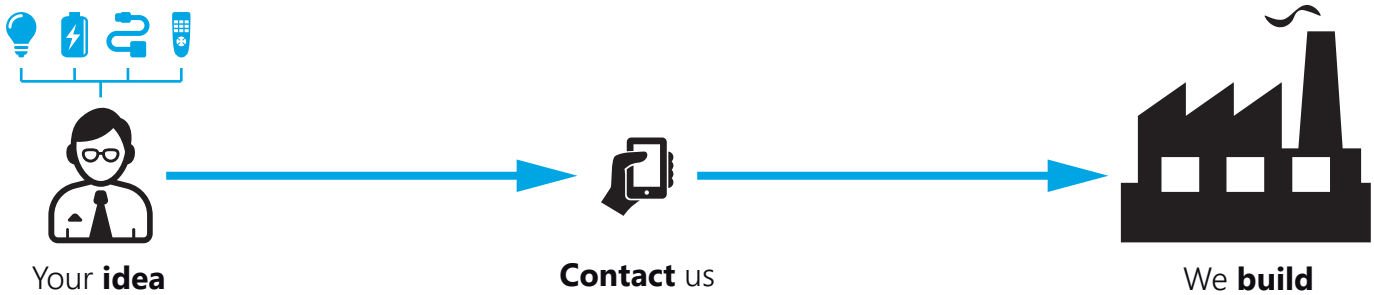
POSM

Point of Sale Materials

epiLED's experience in building customized POS components give you the flexibility to create **brilliant POS solutions.**

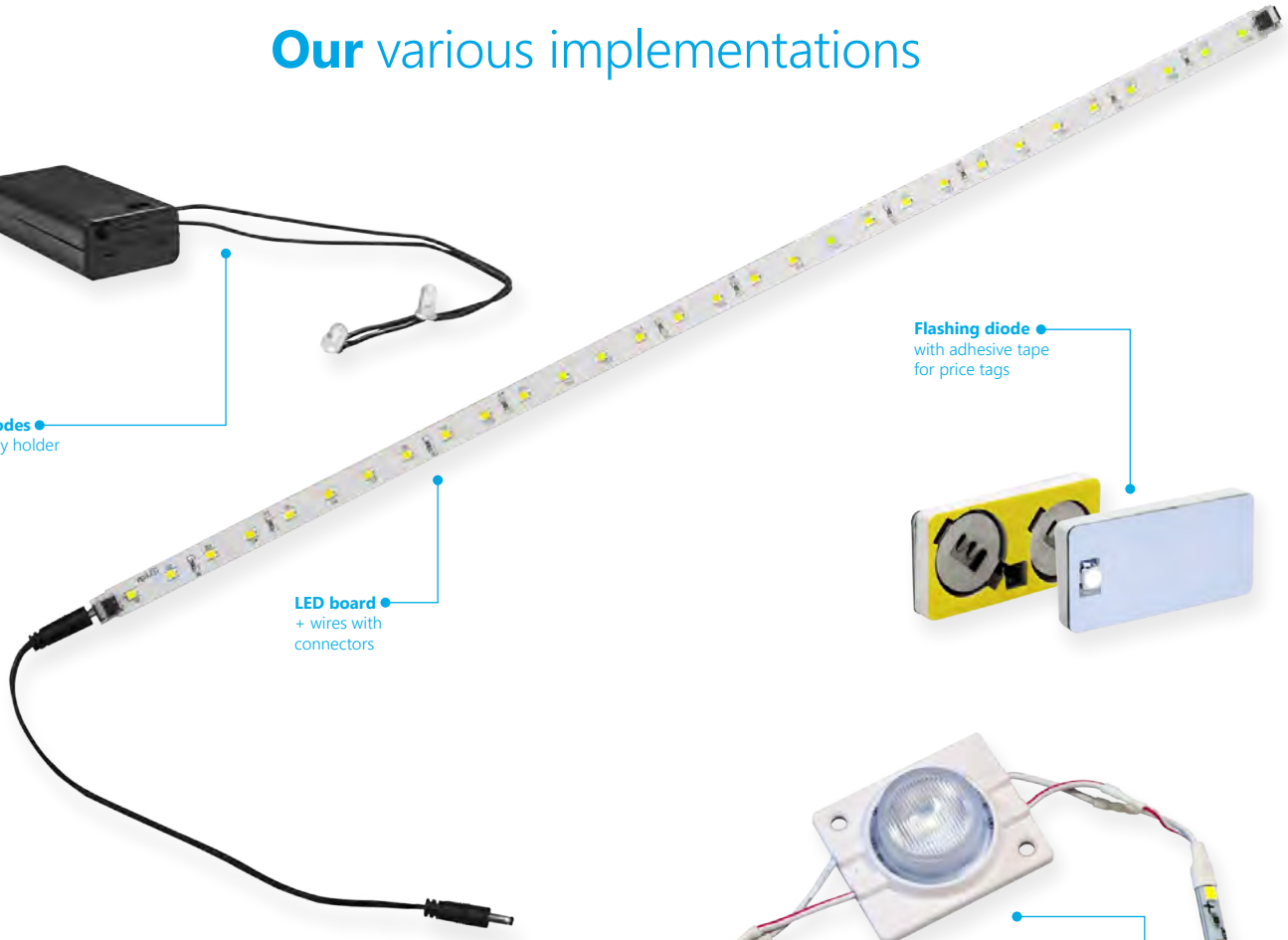


Create **individual** POS solution



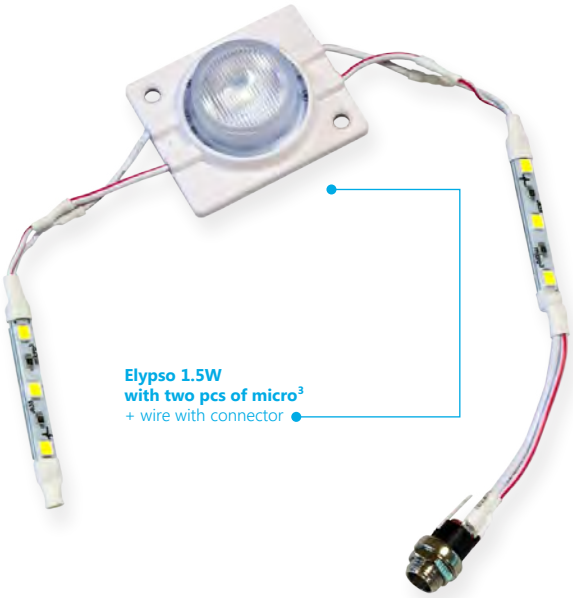
Our various implementations

THT diodes
+ battery holder



LED board
+ wires with connectors

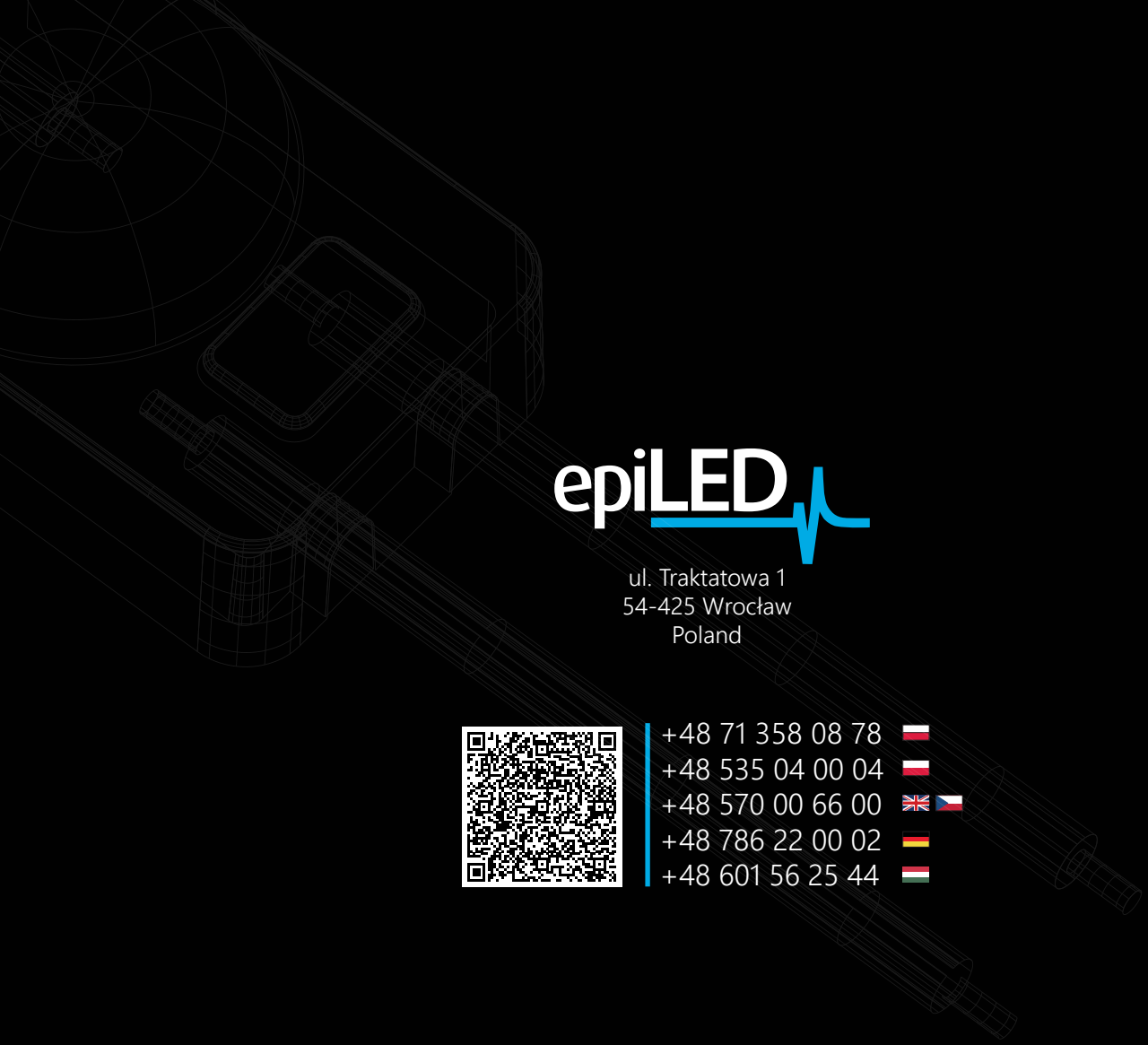
Flashing diode
with adhesive tape for price tags



Elypso 1.5W with two pcs of micro³
+ wire with connector

Sections of different lengths of the **RGB strip**
+ wires with connectors

LED Strip on the magnetic stripe
+ wire with connector



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