

DiGi LED Module E6



General

Dimensions (mm)	41 x 41 x 15
Cover	Clear
Housing Color	Grey
Housing Material	PC
Cable Color	Grey

Electronics

Input Voltage	24 V DC
Power Supply	N/A

Lighting

Optics (°)	100
Chip Brand	CREE
Pixel Pitch	customizable, starting from 80mm,
Lifespan (hours)	50000
Colour Rendering Index (CRI)	≥80
Luminous Flux	RGB 32Lm RGBW 50Lm
Light Color	RGB or RGBW2700K

Control

Control	SPI
Control Units	Single pixel

Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-25 ~ +60 °C
Ingress Protection	IP67
UV Constant	yes



IP67 2^{year} warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



DiGi Module E6

Meet the epitome of versatility with our 24V DiGi LED Module, available in standard RGB and RGBW2700K options. Illuminate your space with vibrant colors or create warm and inviting atmospheres – the choice is yours! Powered by 6 CREE SMD3535 LEDs per module, our DiGi Modules ensure precision and clarity in every beam of light. For added warmth in your palette, the RGBW option includes 2 Osram SMD2835 LEDs, providing a perfect balance of color and luminosity.

Key specifications

Voltage (V)	24V DC
Power Consumption (RGB)	1.44W 1.8W
Luminous Flux	32Lm 50Lm
Color Range	RGB RGBW2700K
Number of channels	3ch 4ch
Node pitch (mm)	Minimum 80mm
Control	SPI
Node length	Customizable



CE

RoHS

IP67

IK07

Ordering information

Color Temp.	Housing color	Node pitch in CM	Node chain Length in CM	Qty
☐ RGB	☐ Black			
☐ RGBW2700K	☐ Grey			

Related Items



Input cable, Bare wire to Female			
☐	☐	M16E 3pin Input cable 1m	3431515
☐	☐	M16E 3pin Input cable 1m	3431525
☐	☐	M16E 3pin Input cable 1m	3431535
Extension cable, Male to Female			
☐	☐	M16E Extension cable 1m	3431615
☐	☐	M16E Extension cable 2m	3431625
☐	☐	M16E Extension cable 3m	3431635
Power cable			
☐	☐	M16E Data Link cable 0.25m	3431705
Power cable			
☐	☐	M16E 3Pin Power cable Double feed 1.5m	3430816
End cap			
☐	☐	M16E 3Pin End cap	3430016



DiGidot C4 Live			
☐	☐	DiGidot C4 Live 4	20101
☐	☐	DiGidot C4 Live 8	20102
☐	☐	DiGidot C4 Live 12	20103
☐	☐	DiGidot C4 Live 16	20104
DiGidot C4 Extended			
☐	☐	DiGidot C4 Extended 1	20201
☐	☐	DiGidot C4 Extended 2	20202
☐	☐	DiGidot C4 Extended 4	20203
☐	☐	DiGidot C4 Extended 8	20204
DiGidot PxLNode			
☐	☐	DiGidot PxLNode U96	20820
DiGidot PxLNet Transceiver kit			
☐	☐	DiGidot PxLNet Transceiver kit RJ45-Bus	20341
☐	☐	DiGidot PxLNet Transceiver kit Screw	203402
☐	☐	DiGidot PxLNet Transceiver kit Solder	203403



Meanwell Power supply			
☐	☐	XLG-75-24	8343100
☐	☐	XLG-100-24	8343300
☐	☐	HLG-150-24	8440700
☐	☐	HLG-240-24	8441600
☐	☐	HLG-320-24	8442500
Mounting			
☐	☐	Mounting clip	



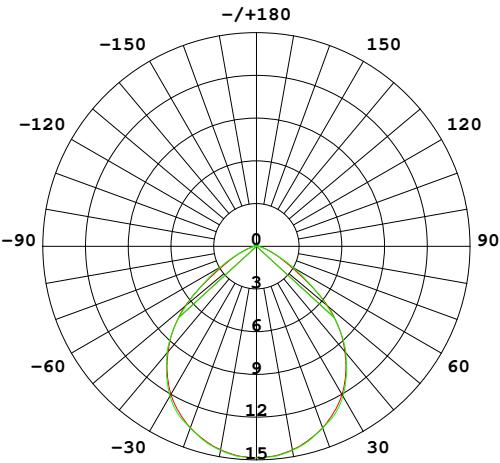
General specifications

Operating Voltage	24V DC		
Color range	RGB		RGBW2700K
CRI	≥80		
Power Consumption p/node	1.44W		1.8W
Channels p/node	3ch		4ch
Luminous Flux p/m	32Lm		50Lm
Max Run Single power feed	40 nodes by 200mm pitch		
Max Run Length for data	1020n		768n
Pixel Pitch	Customizable		
LB Value	L70B10 50.000H		
Storage Temperature	-40° C to 60° C		
Operating Temperature	-25° C to 55° C		
Connector type	M16E 3 Pin Connector		
Ingress Protection	IP67		
Impact protection	IK07		
Mounting Options	Mounting clip		
Certifications	CE, RoHS		
Available Housing Colors	Black, Grey		
Weight p/m	40gr		
Warranty	3 Years		

Model	Red	Green	Blue	3000K
RGB	8Lm	20Lm	4Lm	
RGBW2700K	8Lm	20Lm	4Lm	18Lm

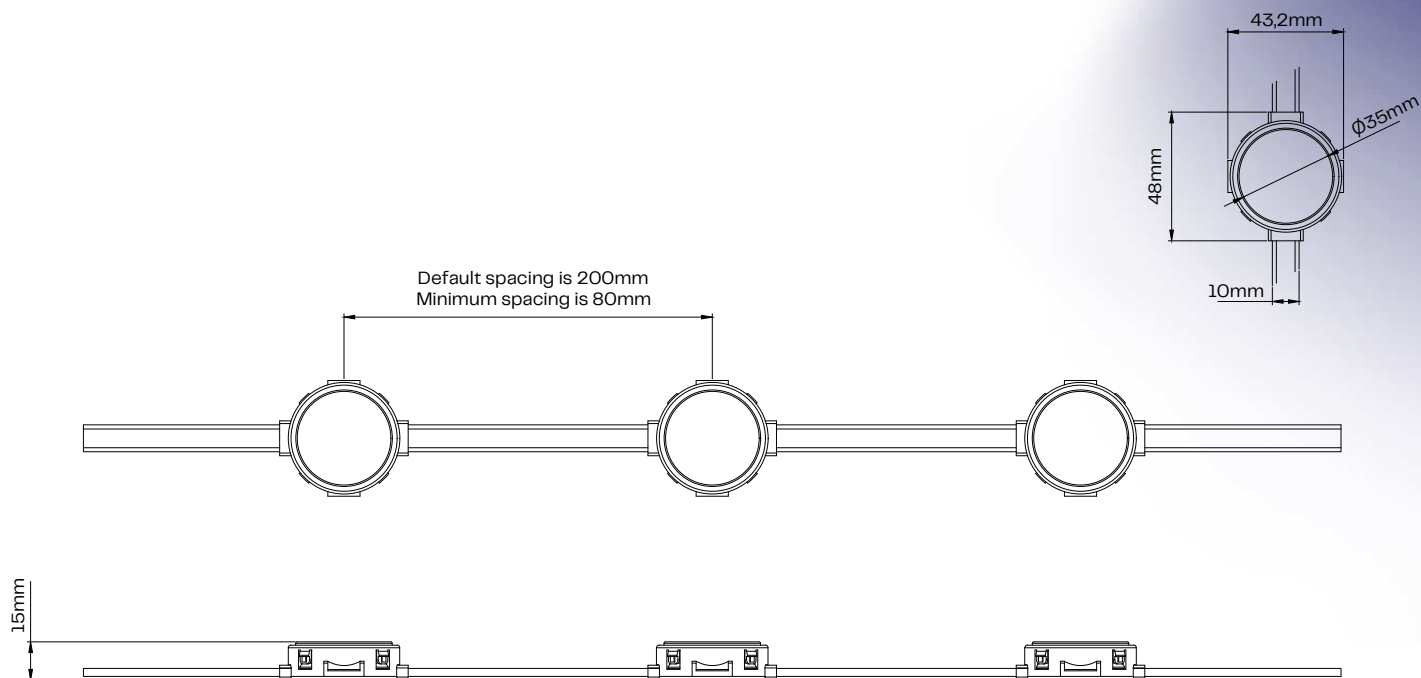
Model	Red	Green	Blue
RGB	620NM	520NM	465NM
RGBW2700K	620NM	520NM	465NM

Light distribution

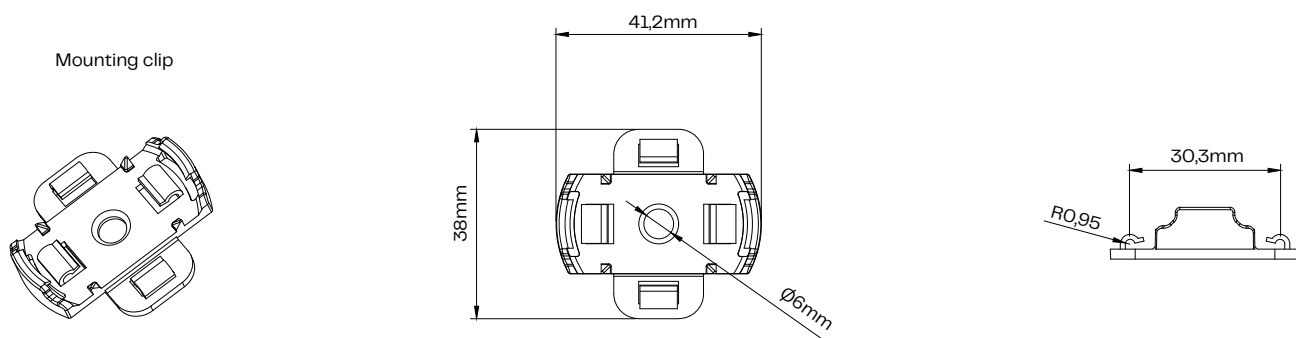


Average Beam angle: 94.9 Deg

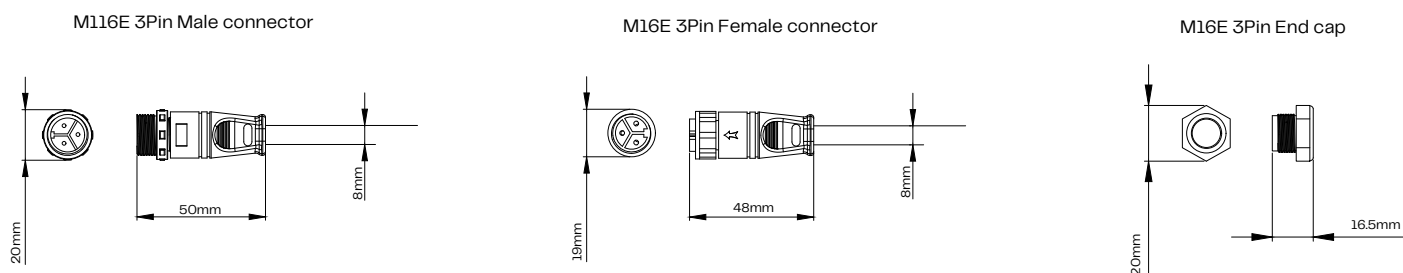
Dimensions



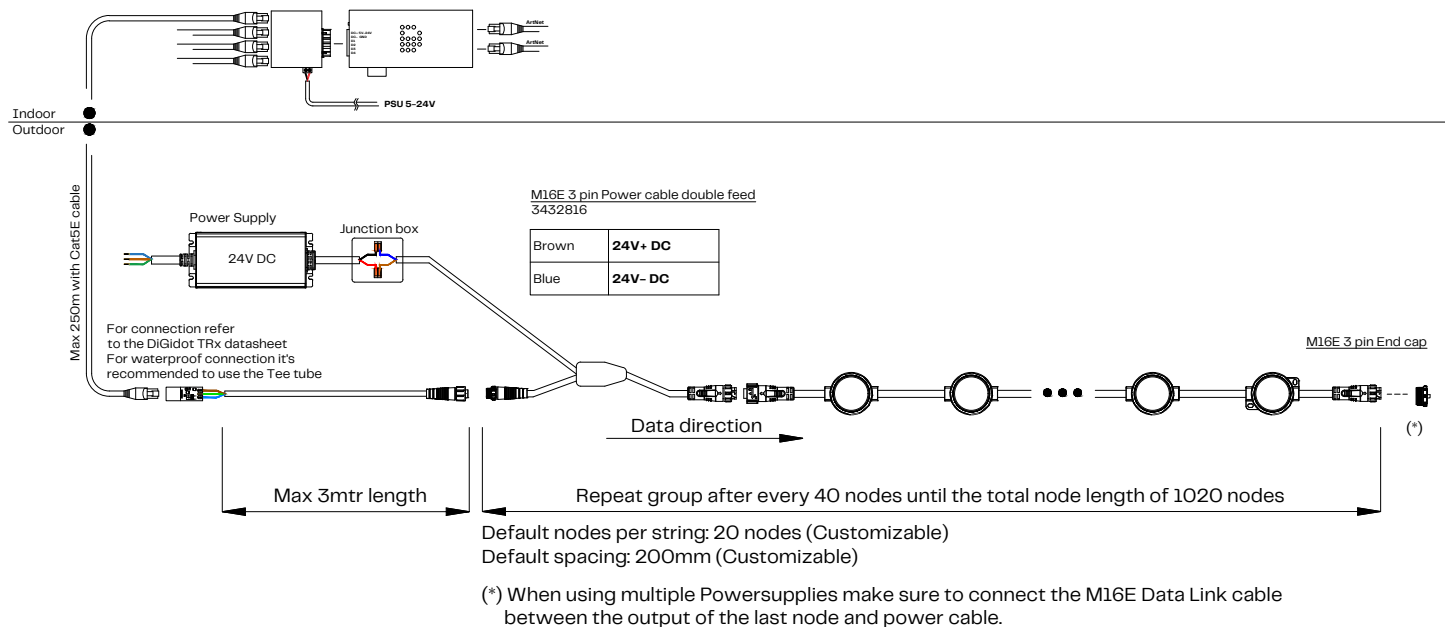
Accessories



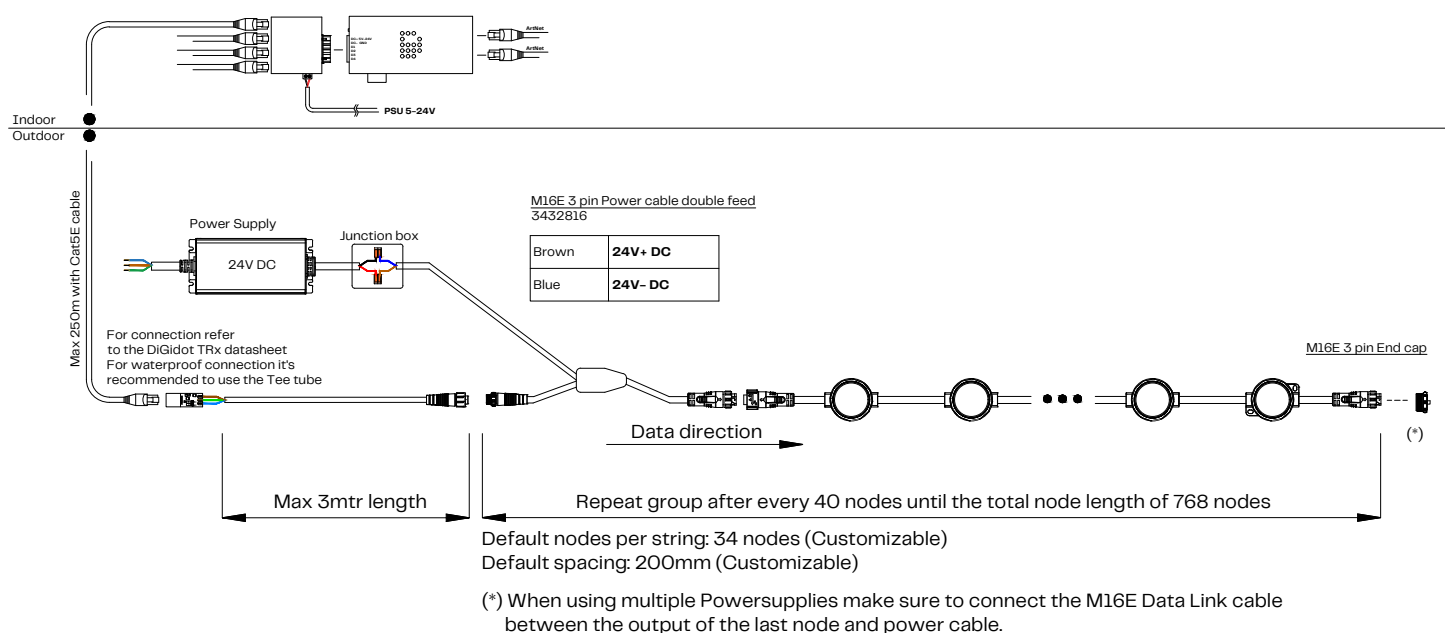
Dimensions M16E 3Pin connectors & End cap



System diagram DiGi Module E6 RGB



System diagram DiGi Module E6 RGBW



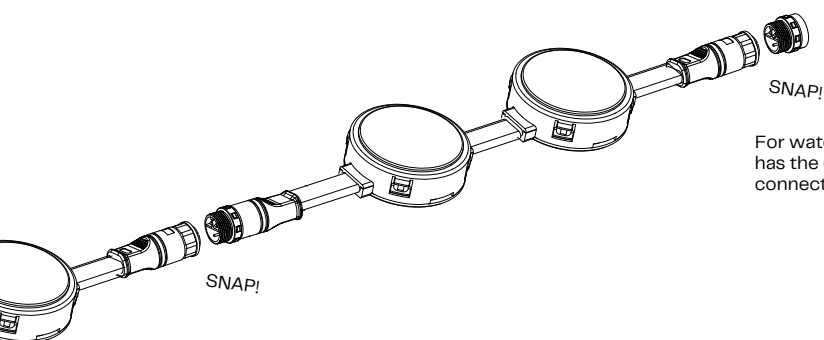
Installation guide

Important note:

- Make sure power is disconnected during installation or maintenance.
- Keep cables and the DiGi Module protected from sharp objects to prevent damage
- The DiGi Module is a made-to-order product with the finish of the product specifically moulded to provide optimal weatherproof performance.
- Female or male connector with cable and bare wire cables can be ordered separately in various lengths.
- It is recommended to ensure the feeder cable is long enough to reach the cable entry point of flex where connection can be made.
- Do not cut the cables and the waterproof connectors. DIY cutting of this product will void the warranty.

Tips:

- Before powering the system, check if all polarities are aligned.
- It's recommended to install longer lengths with two persons.



SNAP!

For waterproof connection make sure that the last fixture has the endcap connector fixed to the last output connector



Make sure there is
no tension on the cable

