

The DiGi Module ES delivers scalable high-performance RGBW point-source illumination for demanding architectural displays, entertainment installations, and projects requiring flexible power options with superior color control. This versatile module is perfect for high-impact facade installations, offering SPI control for precise color mixing and dynamic lighting effects with exceptional brightness and professional color rendering.

Engineered with robust IP68-rated ABS housing and PC lens construction with 110° beam angle coverage, the ES module provides reliable performance in challenging outdoor environments. Available in black or beige housing it delivers exceptional color rendering for professional lighting designers requiring scalable power output and advanced control flexibility.

- Scalable Architecture – Three variants with delivering precise color mixing with superior performance.
- Compact High-Performance Design – Compact form factor with IP68 protection and 110° beam angle for versatile installation applications.

RoHS

IP68

IK08

Specifications

General		
Power Consumption (W)	ES3	0,9
	ES6	1,8
	ES12	3
Input Voltage (V DC)	ES3	12
	ES6	24
	ES12	48
LEDs (/module)	ES3	4
	ES6	8
	ES12	16
Pixels (/module)	1	
Channels (/module)	4	
LED Type	3in1 + Discrete	
Color Range	RGBW	
CRI	≥80	
Beam Angle (°)	110	
Control	SPI	
Dimming	16 bit	

Installation Conditions & Lighting Data		
Minimum Pixel Pitch ¹ (mm)	ES3	80
	ES6	100
	ES12	120
Maximum String Length ¹ (m)	ES3, ES6	15
	ES12	10
Maximum Run Length Power ¹	ES3 (m)	20
	ES6, ES12 (m)	30
	ES3 (modules)	48
	ES6, ES12 (modules)	64
Maximum Run Length Data ¹ (modules)	@30fps	640
	@50fps	384
Maximum Leader Cable Length ¹ (m)	Up to 20	
Delivered Lumen Full RGBW (lm)		
Lumen Maintenance Calculated Hours (h)	L80B10 50,000	

¹ More details can be found in the Installation Guide document.

Operating	
Environment	Outdoor
Installation Temperature (°C)	-40 to +60



Working Temperature (°C)	-25 to +55
IK Rating	IK08
IP Rating	IP68
Certification	CE, RoHS, ETL
Limited Warranty	5 Years

Physical		
Housing Material	ABS	
Cable Material	PCP	
Connector Material	Nylon (PA66)	
Cover Material	PC	
Housing Color	Black / Beige	
Cable Color	Black / Beige	
Connector Type	M16 5Pin	
Dimensions LxWxH (mm)	ES3	50 x 38 x 16,7
	ES6	60 x 48 x 16,7
	ES12	72 x 60 x 16,7
Weight (kg/module)	ES3	0,022
	ES6	0,033
	ES12	0,050

Options

Color/CCT	
☐ RGBW2700K	☐ RGBW5000K
☐ RGBW3000K	☐ RGBW6500K
☐ RGBW4000K	

Covers		
ES3	ES6	ES12
☐ Flat Transparent	☐ Flat Transparent	☐ Flat Transparent
☐ Dome	☐ Dome	☐ Dome
☐ Globe		
☐ Turbo		

Accessories	
ES3	ES6
☐ Mounting Profile	☐ Mounting Profile

Lighting Specifications

DiGi Module ES

	Full RGBW (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
ES3 RGBW2700K					
ES3 RGBW3000K					
ES3 RGBW4000K					
ES3 RGBW5000K					
ES3 RGBW6500K					
ES6 RGBW2700K					
ES6 RGBW3000K					
ES6 RGBW4000K					
ES6 RGBW5000K					
ES6 RGBW6500K					
ES12 RGBW2700K					
ES12 RGBW3000K					
ES12 RGBW4000K					
ES12 RGBW5000K					
ES12 RGBW6500K					

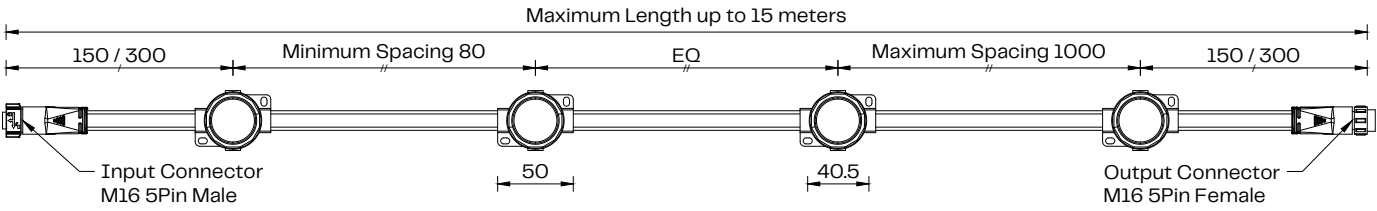
	Red (nm)	Green (nm)	Blue (nm)
Spectral Information	620-625	520-525	465-470

Photometric Distribution

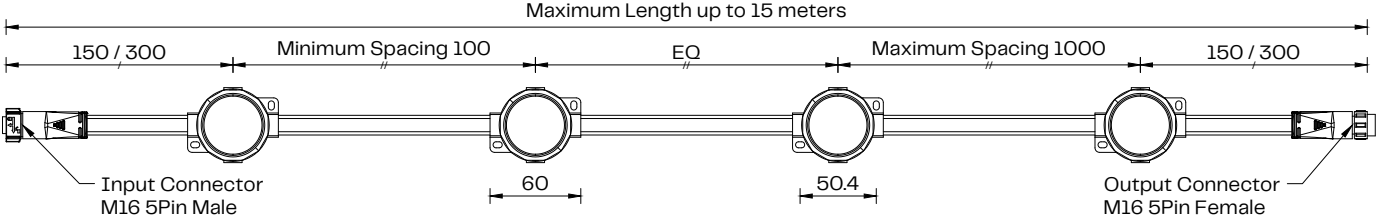
Dimensions

DiGi Module ES Multi Color¹

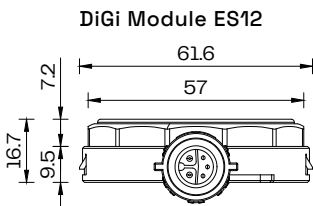
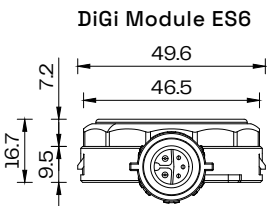
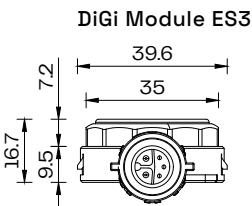
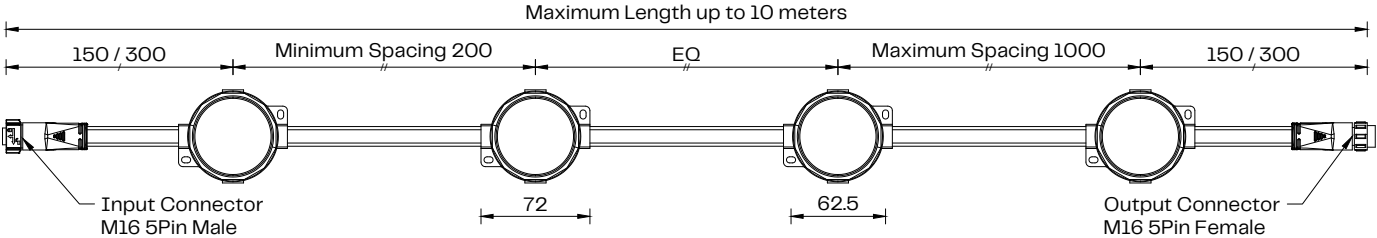
DiGi Module ES3



DiGi Module ES6



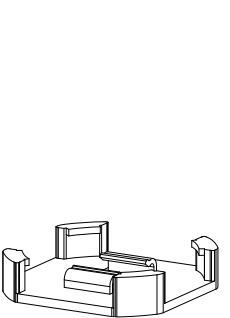
DiGi Module ES12



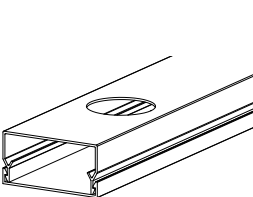
¹ The dimensions shown are not to scale. Please refer to the Dimensions Sheet document for additional dimensions.

Accessory Options

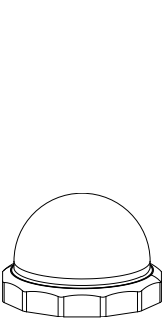
Mounting Clip



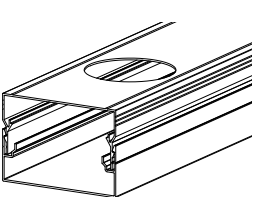
Mounting Profile ES3



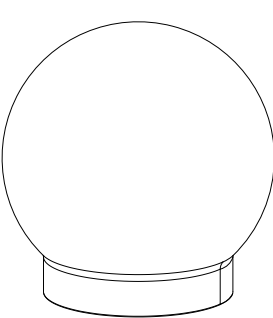
Dome Cover



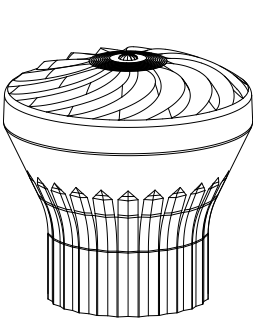
Mounting Profile ES6



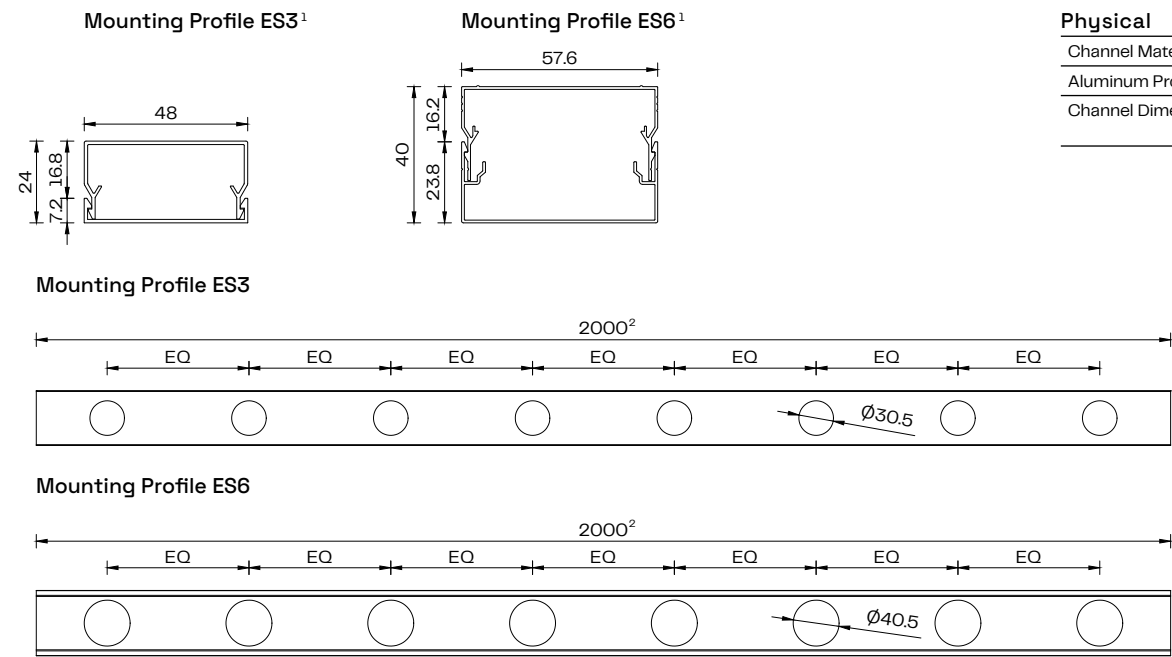
Globe Cover



Turbo Cover



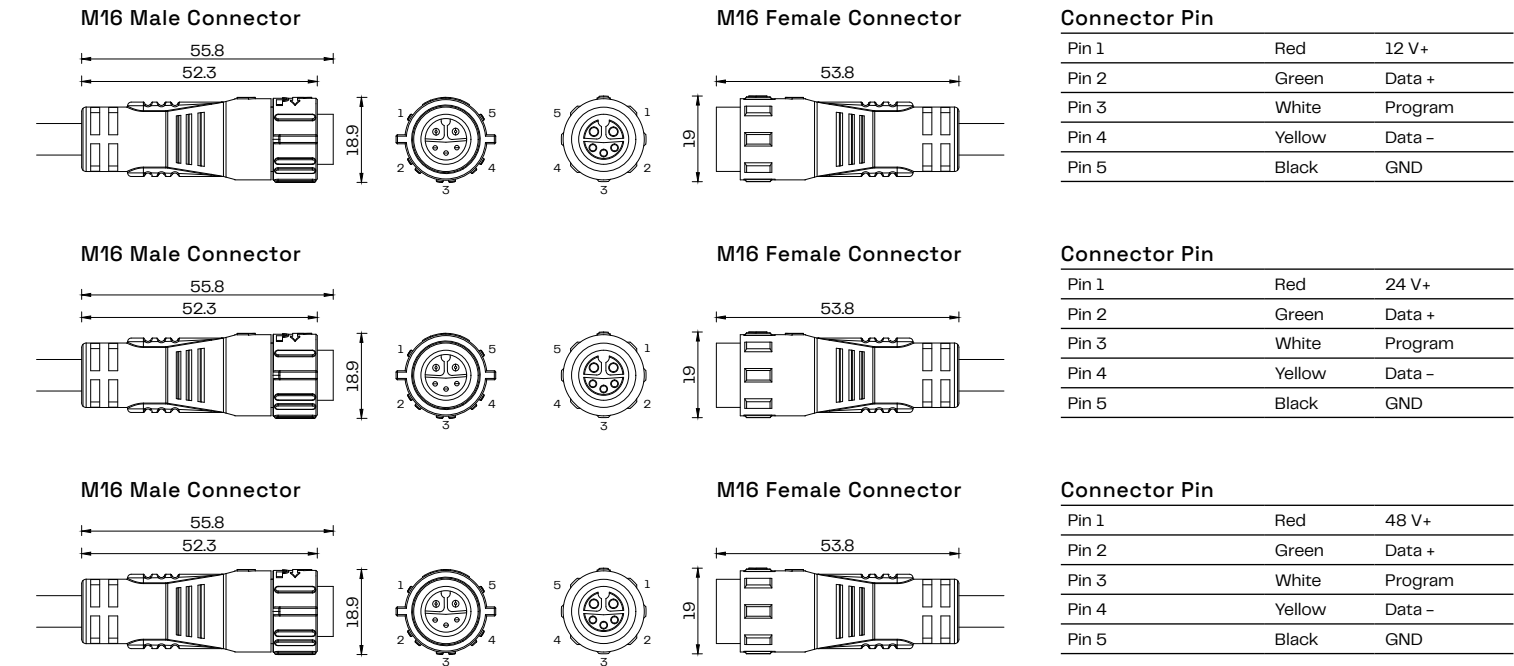
Profile Specification



Physical	
Channel Material	Aluminum Alloy 6063
Aluminum Profile Finish	Blank Anodized
Channel Dimensions	Hole arrangement based on ordered Module ES Pitch

¹ The dimensions shown are not to scale. Please refer to the Mounting Profile Dimensions Sheet document for additional dimensions.
² 2000mm profile and 200mm pitch hole cut-out are standard. Custom lengths are available upon request.

Connection



Connector Pin

M16 Male Connector

M16 Female Connector

Connector Pin

M16 Male Connector

M16 Female Connector

Connector Pin

Product References

DiGi Module ES

Reference	Description
	DiGi Module ES3 RGBW2700K Black
	DiGi Module ES3 RGBW3000K Black
	DiGi Module ES3 RGBW4000K Black
	DiGi Module ES3 RGBW5000K Black
	DiGi Module ES3 RGBW6500K Black
	DiGi Module ES3 RGBW2700K Beige
	DiGi Module ES3 RGBW3000K Beige
	DiGi Module ES3 RGBW4000K Beige
	DiGi Module ES3 RGBW5000K Beige
	DiGi Module ES3 RGBW6500K Beige
	DiGi Module ES6 RGBW2700K Black
	DiGi Module ES6 RGBW3000K Black
	DiGi Module ES6 RGBW4000K Black
	DiGi Module ES6 RGBW5000K Black
	DiGi Module ES6 RGBW6500K Black
	DiGi Module ES6 RGBW2700K Beige
	DiGi Module ES6 RGBW3000K Beige
	DiGi Module ES6 RGBW4000K Beige
	DiGi Module ES6 RGBW5000K Beige
	DiGi Module ES6 RGBW6500K Beige
	DiGi Module ES12 RGBW2700K Black
	DiGi Module ES12 RGBW3000K Black
	DiGi Module ES12 RGBW4000K Black
	DiGi Module ES12 RGBW5000K Black
	DiGi Module ES12 RGBW6500K Black
	DiGi Module ES12 RGBW2700K Beige
	DiGi Module ES12 RGBW3000K Beige
	DiGi Module ES12 RGBW4000K Beige
	DiGi Module ES12 RGBW5000K Beige
	DiGi Module ES12 RGBW6500K Beige

Accessories

Reference	Description
	Globe Cover
	Turbo Cover
	Dome Cover
	Mounting Profile ES3
	Mounting Profile ES6
	Mounting Clip