The DiGi Module ES delivers scalable high–performance RGB 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 with CRI ≥80 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.

CE   RoHS   ETLus   IP68   IK08

Specifications

General

Power Consumption (W)	ES3	0,7
	ES6	1,4
	ES12	2,5
Input Voltage (V DC)	ES3	12
	ES6	24
	ES12	48
LEDs (/module)	ES3	3
	ES6	6
	ES12	12
Pixels (/module)	1	
Channels (/module)	3	
LED Type	3in1	
Color Range	RGB	
Beam Angle (°)	110	
Control	SPI	
Dimming	16 bit	

Installation Conditions & Lighting Data

Minimum Pixel Pitch [1] (mm)	ES3	80
	ES6	100
	ES12	200
Maximum String Length [1] (m)	ES3, ES6	15
	ES12	10
Maximum Run Length Power [1]	ES3 (m)	20
	ES6, ES12 (m)	30
	ES3 (modules)	64
	ES6, ES12 (modules)	102
Maximum Run Length Data [1] (modules)	@30fps	850
	@50fps	510
Maximum Leader Cable Length [1] (m)	Up to 20	
Delivered Lumen Full RGB (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

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

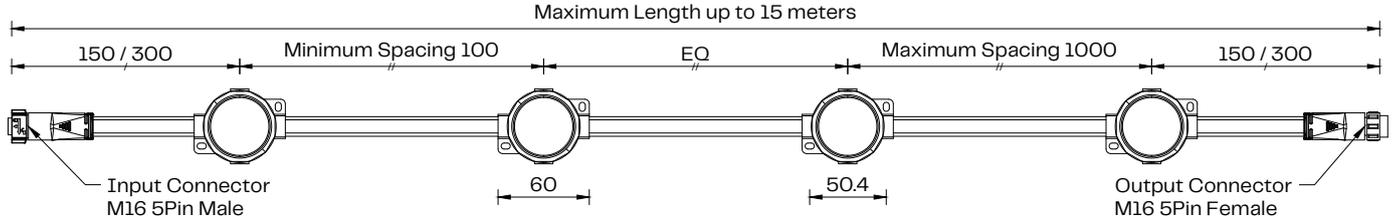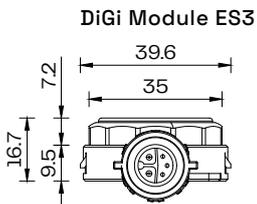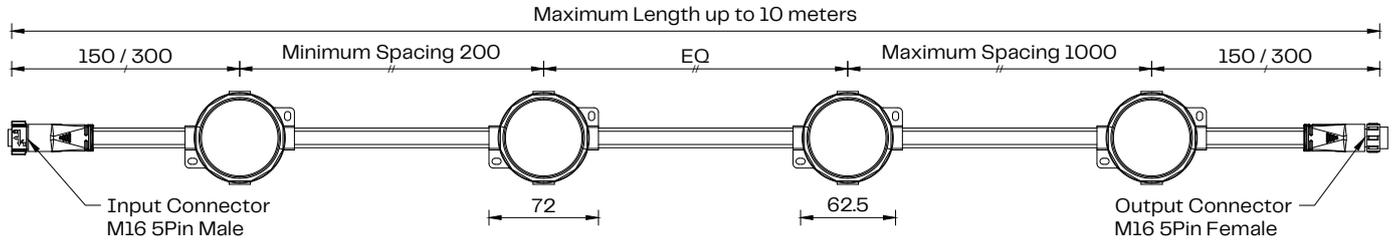|	Full RGB (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)		Red (nm)	Green (nm)	Blue (nm)
ES3 RGB					Specteral Information	620-625	520-525	465-470
ES6 RGB								
ES12 RGB								

Photometric Distribution

Dimensions

DiGi Module ES Multi Color [1]

DiGi Module ES3

Maximum Length up to 15 meters

150 / 300   Minimum Spacing 80   EQ   Maximum Spacing 1000   150 / 300

Input Connector
M16 5Pin Male

50   40.5

Output Connector
M16 5Pin Female

DiGi Module ES6

Maximum Length up to 15 meters

150 / 300   Minimum Spacing 100   EQ   Maximum Spacing 1000   150 / 300

Input Connector
M16 5Pin Male

60   50.4

Output Connector
M16 5Pin Female

DiGi Module ES12

Maximum Length up to 10 meters

150 / 300   Minimum Spacing 200   EQ   Maximum Spacing 1000   150 / 300

Input Connector
M16 5Pin Male

72   62.5

Output Connector
M16 5Pin Female

DiGi Module ES3	DiGi Module ES6	DiGi Module ES12
39.6	49.6	61.6
35	46.5	57
7.2	7.2	7.2
16.7 / 9.5	16.7 / 9.5	16.7 / 9.5
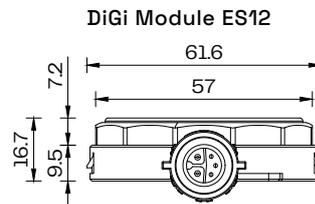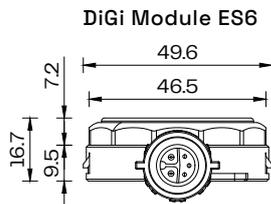
[1] The dimensions shown are not to scale. Please refer to the Dimensions Sheet document for additional dimensions.

Accessory Options

Mounting Clip

Dome Cover
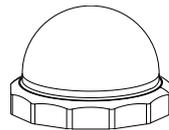
Globe Cover
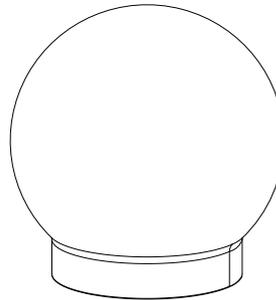
Turbo Cover
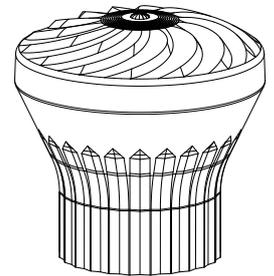
Mounting Profile ES3
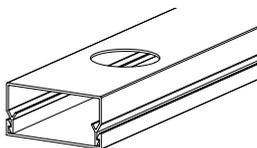
Mounting Profile ES6
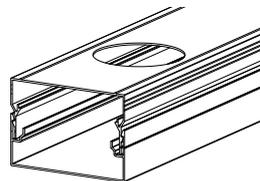
Profile Specification

Mounting Profile ES3 [1]

48

24

7.2 16.8
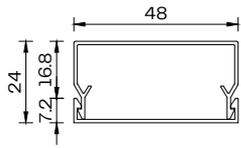
Mounting Profile ES6 [1]

57.6

40

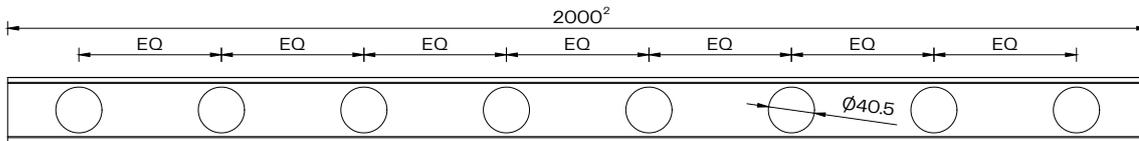16.2

23.8
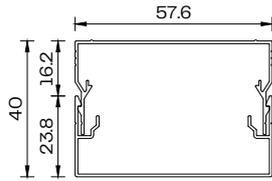
Physical

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

Mounting Profile ES3

2000 [2]

EQ   EQ   EQ   EQ   EQ   EQ   EQ

Ø30.5

Mounting Profile ES6

2000 [2]

EQ   EQ   EQ   EQ   EQ   EQ   EQ

Ø40.5
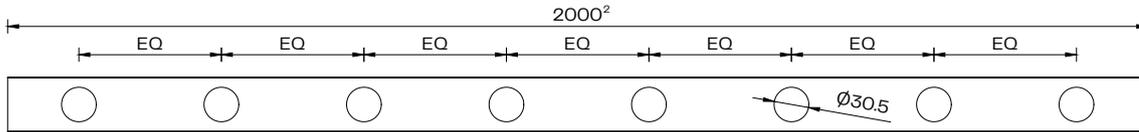
[1] The dimensions shown are not to scale. Please refer to the Mounting Profile Dimensions Sheet document for additional dimensions.
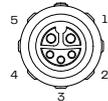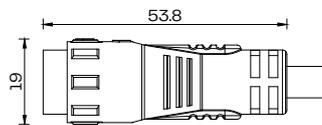[2] 2000mm profile and 200mm pitch hole cut-out are standard. Custom lengths are available upon request.
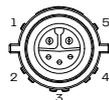
Connection

M16 Male Connector

55.8
52.3
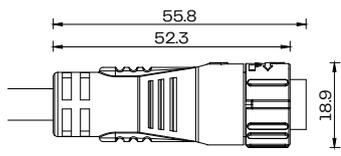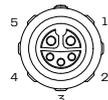18.9

M16 Female Connector

53.8
19
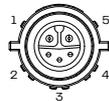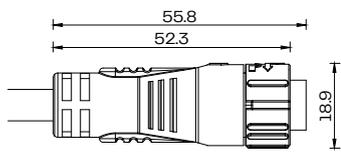
Connector Pin

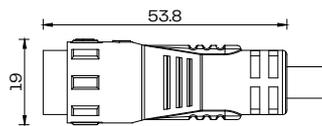|		
Pin 1	Red	12 V+
Pin 2	Green	Data +
Pin 3	White	Program
Pin 4	Yellow	Data –
Pin 5	Black	GND

M16 Male Connector

55.8
52.3
18.9

M16 Female Connector

53.8
19

Connector Pin

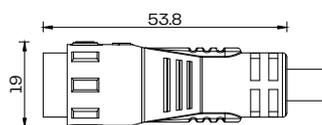|		
Pin 1	Red	24 V+
Pin 2	Green	Data +
Pin 3	White	Program
Pin 4	Yellow	Data –
Pin 5	Black	GND

M16 Male Connector

55.8
52.3
18.9

M16 Female Connector

53.8
19
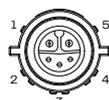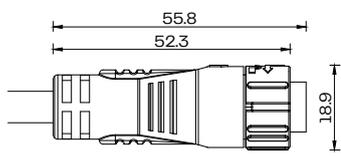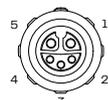
Connector Pin

Pin 1	Red	48 V+
Pin 2	Green	Data +
Pin 3	White	Program
Pin 4	Yellow	Data –
Pin 5	Black	GND

Product References

DiGi Module ES

Reference	Description
	DiGi Module ES3 RGB Black
	DiGi Module ES3 RGB Beige
	DiGi Module ES6 RGB Black
	DiGi Module ES6 RGB Beige
	DiGi Module ES12 RGB Black
	DiGi Module ES12 RGB Beige

Accessories

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