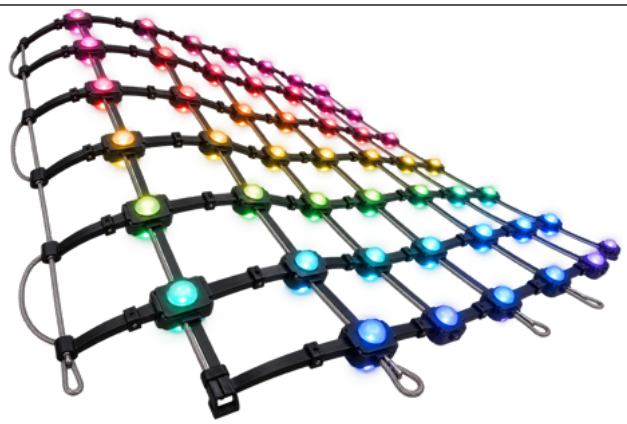
RUGGED MESH | FLEXIBLE PIXEL MESH

The RXM is a double-sided pixel net for large-scale media façades, curtain walls and suspended installations. Each node carries two independently addressable RGB pixels, one per face, so the same net shows content on both sides.

Nodes sit on a 238mm grid (custom pitches available) and hang from stainless steel wire rope. That keeps the structure light and open, suited to see-through façades, and architectural volumnes.

Built for outdoor use, the RXM is IP66-rated for water and dust protection and runs on 24V DC, with runs of up to 150 meters per power unit.

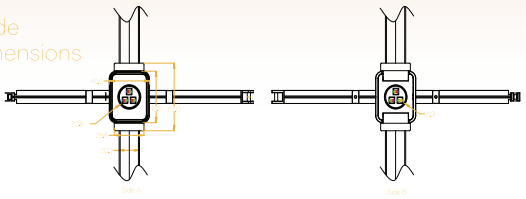


At a glance

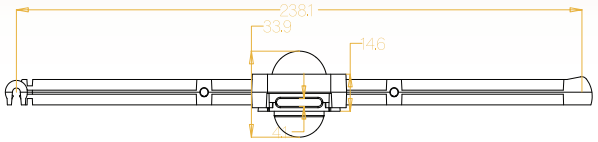
Emitters



Node Dimensions



LED Dimensions



Controls



Voltage

24V DC

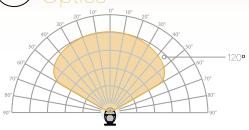
Protection

Ingress – IP66

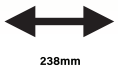
Temperature

-40ºC to 60ºC
-40ºF to 140ºF

Optics



Pitch



FIXTURE PRODUCT CONFIGURATOR

Prefix	Node Qty	LED Colour	Control	Pitch	Voltage	Mount
RXM	1 2 3 4 5 6 7 8 50	RGB	S – SPI	238 – 238mm C – Custom	24 - 24V DC	WR – Wire Rope B – Bracket

EXAMPLE: RXM – 5 – RGB – S – 238 – 24 – WR

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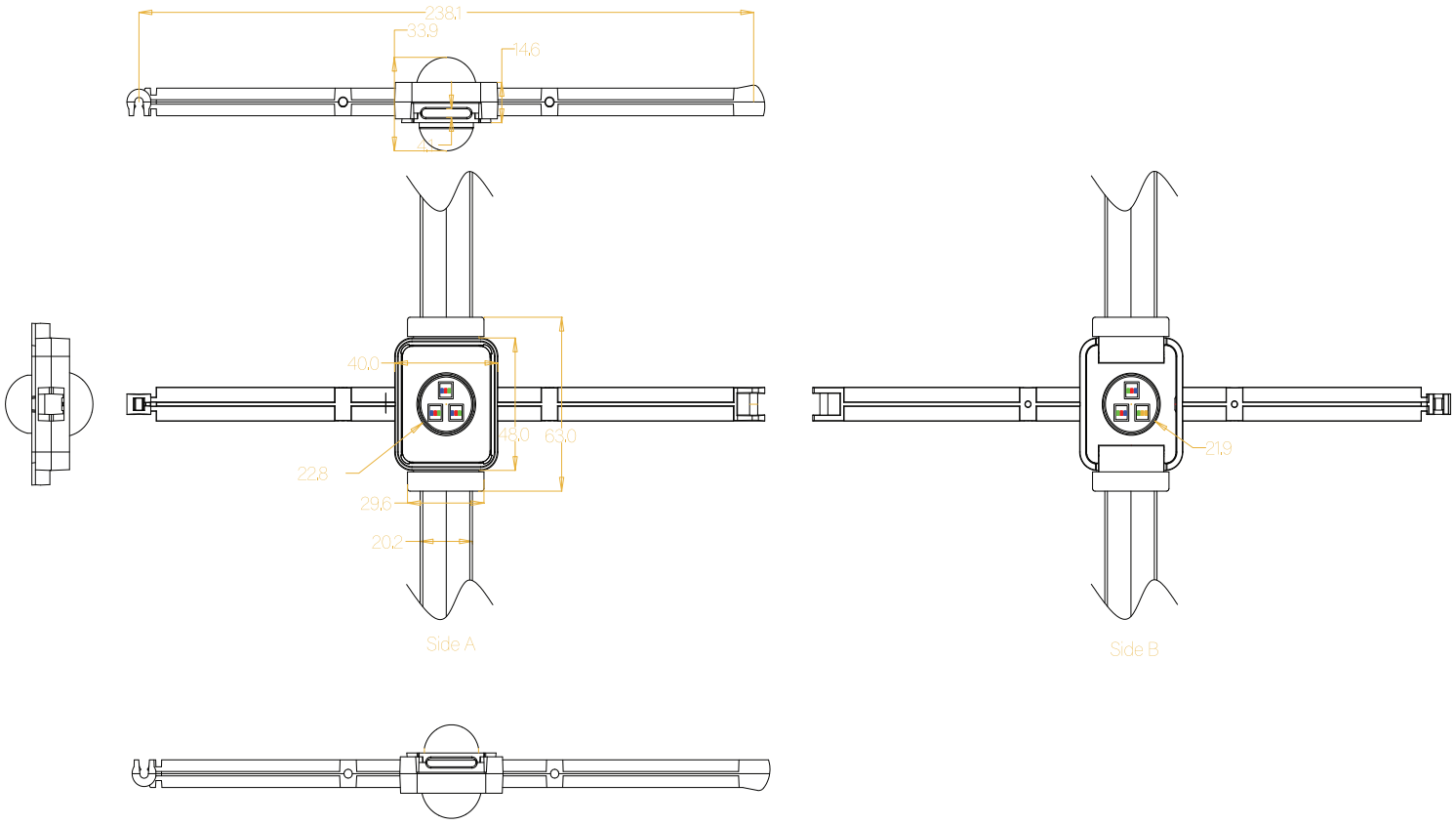
FIXTURE SPECIFICATIONS

ELECTRICAL	POWER CONSUMPTION	2.6W PER NODE (DEFAULT) / 3.5W PER NODE (MAX) / 0.2W PER NODE (MIN)
	OPERATING VOLTAGE	24V DC
	OPERATING TEMPERATURE	-20°C TO 60°C – (-4°F TO 140°F)
	STORAGE TEMPERATURE	-40°C TO 80°C – (-40°F TO 176°F)
	RATED CURRENT	110MA PER NODE (DEFAULT) / 144MA (MAX) /9MA (MIN)
	CHANNEL CURRENT	1.5MA - 24MA PER CHANNEL 16 STEPS (18MA DEFAULT)
	MINIMUM SUPPLY VOLTAGE	21V DC AT INPUT OF EACH RUN
	PSU SIZING	MINIMUM 20% HEADROOM OVER TOTAL LOAD
PHYSICAL	NODE DIMENSIONS	L: 40MM – H: 48MM (63MM INCLUDING CABLE CLAMPS)
	LENS DIMENSIONS (DOME)	Ø22.8MM (SIDE A) / @21.9MM (SIDE B)
	HOUSING MATERIAL	PC (POLYCARBONATE)
	HOUSING COLOUR	BLACK STANDARD HOUSING
	PCB	FR4
	LED QTY (NODE)	6 LEDS (3 PER SIDE, DOUBLE-SIDED)
	NODES PER STRING	50 (STANDARD) / CUSTOMISED LENGTHS AVAILABLE
	PITCH	238MM (STANDARD) / CUSTOMISED OPTIONS AVAILABLE
	MAX RUN LENGTH	150M PER POWER UNIT
	CONNECTION	8-PIN POWER/DATA CONNECTOR, Y-SPLITTER TO PSU BOX
	MOUNTING OPTIONS	STAINLESS STEEL WIRE ROPE WITH TURNBUCKLES AND U-CLIPS, BRACKET MOUNT
	FLAME RATING	UL 94-V2 MINIMUM
	IP RATING	IP66
	SOURCE LIFE	50,000HOURS
OPTICAL	BEAM ANGLE	120°
	EMISSION	DOUBLE-SIDED (FRONT AND REAR)
	COLOUR RANGE	RGB
	WAVELENGTH	R: 610-620NM / G: 520-530NM / B: 450 - 465NM
	LUMEN OUTPUT	R: 38LM / G: 61LM / B: 17.5LM PER NODE
	LENS	50% DIFFUSION
	LED TYPE	SMD 5054 RGB (EPISTAR CHIPS)
DIMING & CONTROL	CONTROL PROTOCOL	SPI, DUAL-SIGNAL DATA REDUNDANCY
	DRIVER IC	UCS5603A
	DIMMING RESOLUTION	12-BIT (4,096 GREY LEVELS) PER CHANNEL
	PIXELS PER NODE	2 (INDEPENDENT IC PER SIDE)
	DATA RATE	800 KBPS
	PWM REFRESH RATE	2KHZ
	MAX PIXELS PER DATA LINE	370 @60FPS / 740 @ 30FPS
FIXTURE RATING & CERTIFICATIONS	CE / IP66 /RoHs	
LIMITED WARRANTY	5 YEARS *Extendable warranty available	

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FIXTURE DIMENSIONS

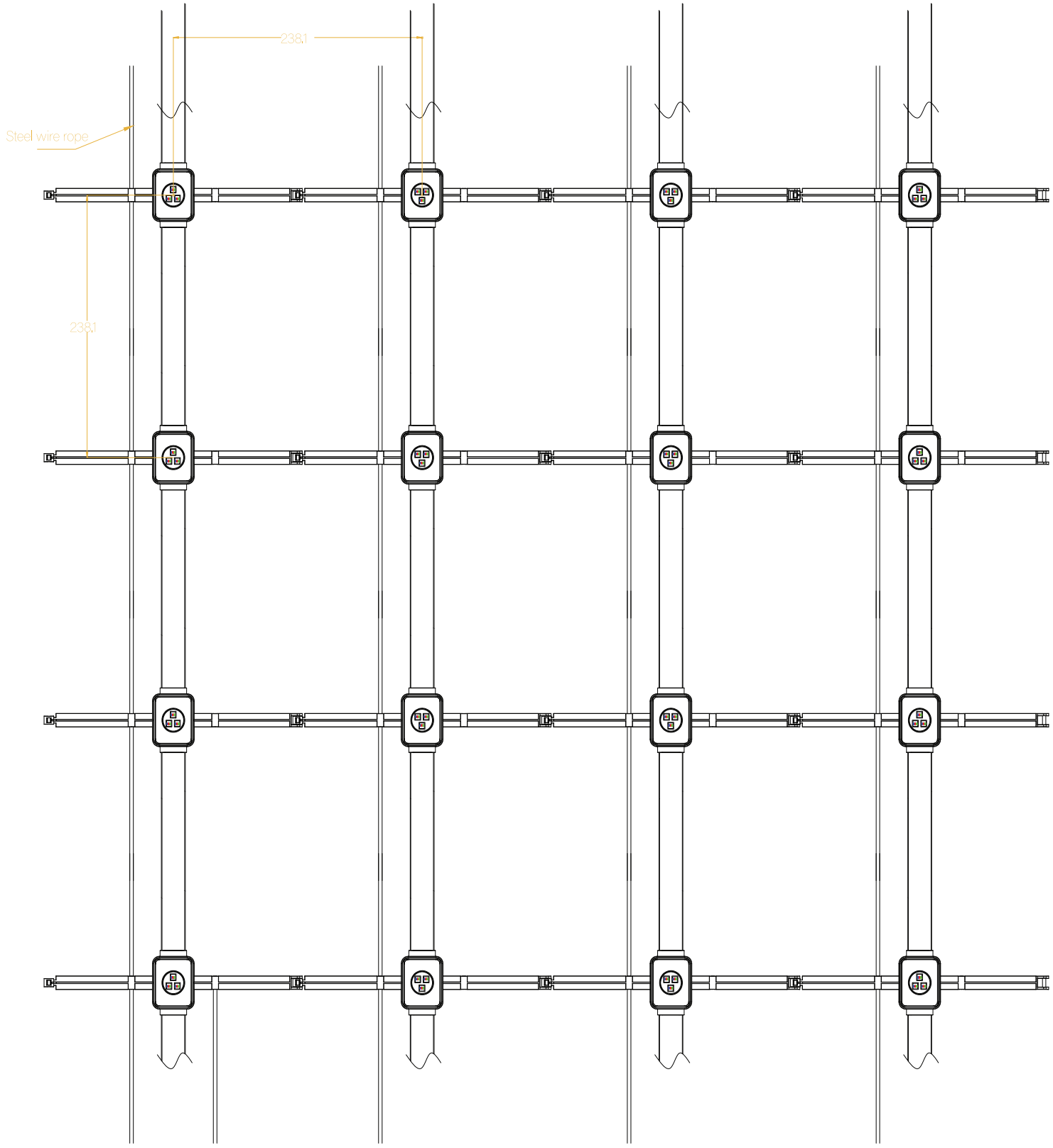
RXM DIMENSIONS



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FIXTURE DIMENSIONS

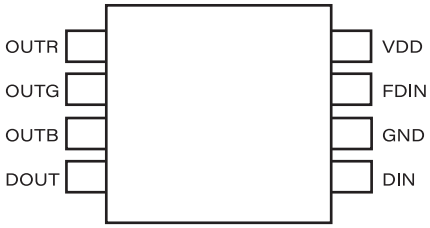
RXM MESH DIMENSIONS



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CABLES AND CONNECTORS

PIN LAYOUT



PIN DESCRIPTION

No.	Symbol	Function Description
1	OUTR	Red, PWM Control Output
2	OUTG	Green, PWM Control Output
3	OUTB	Blue, PWM Control Output
4	DOUT	Display Data Cascade Output (800K)
5	DIN	Display Data Input (800K)
6	GND	Ground
7	FDIN	Auxiliary Display Data Input (800K)
8	VDD	Power Supply

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