TRAXON Plus⁺

Media Board Plus RGB 64PXL

**IP20 Indoor**   **DMX 512**   **E:PIX**
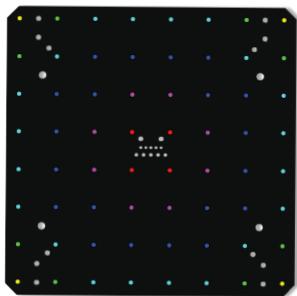
The Media Board Plus RGB 64 PXL features color-calibrated, controllable ultra-bright SMT LEDs on a 8 x 8 matrix with a 31.2 mm pitch, ensuring precise white balance and delivering vivid and vibrant colors. Example applications encompass architectural highlights (on walls, floors, counters, decorative elements) for backlighting in light boxes or stretch ceilings, as well as in light panels, to make an impact at trade fairs.

This product is intended for use in high-quality colored light applications.

Technologies

- DMX / e:pix Control
- Auto-Addressing
- Color-Calibration

Features

– 64 individually controlled RGB Pixels DMX / e:pix Control

– Auto-Addressing

Color Options

RGB

RGBW 6500K

Customization

Dimensions (in mm)

240mm [9.45"]
221mm [8.70"]
300mm [11.81"]
240mm [9.45"]
221mm [8.70"]
170mm [6.69"]
180mm [7.09"]
187.5mm [7.38"]
125mm [4.92"]
170mm [6.69"]
187.5mm [7.38"]
218.7mm [8.61"]

BACK VIEW

Viewing Angles

140°

Finish

Black

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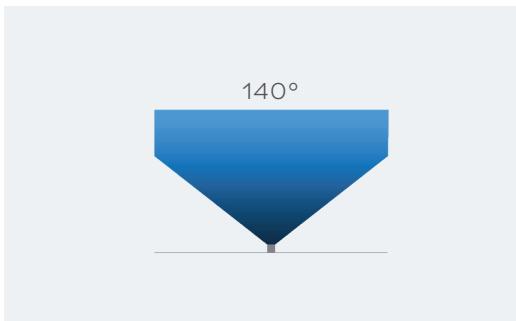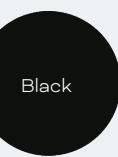
Product Specifications

	RGB 64PXL Board	RGB 16PXL Add-on Board	RGB 8PXL Add-on Strip
RGB 16PXL Family			
Light Source (LEDs)	64 SMT RGB LEDs (Individually Controllable)	16 SMT RGB LEDs (Individually Controllable)	8 SMT RGB LEDs (Individually Controllable)
Color Range	16.7 Million additive RGB colors		
Color Resolution	3 x 16-bit (Gamma correction)		
Beam Angle	115°		
Viewing Angle	140°		
Luminous Flux	493 lm	132 lm	63 lm
Luminance	3025 cd/m² (nits) calibrated	3433 cd/m² (nits) calibrated	2950 cd/m² (nits) calibrated
LED Pitch	31.2 mm / 1.23"		
Efficacy	32 lm/W	35 lm/W	33 lm/W
Lumen Maintenance	L70 @ 25 °C - 50'000 hours		
Light Intensity	174 cd calibrated	45 cd calibrated	32 cd calibrated
Housing	PCB		
Weight	0.26kg / 0.57lbs	0.065kg / 0.14lbs	0.05kg / 0.11lbs
Dimensions (L x W x H)	240 mm x 240 mm x 12 mm 9.45" x 9.45" x 0.47"	115 mm x 115 mm x 12 mm 4.53" x 4.53" x 0.47"	240 mm x 31.25 mm x 12 mm 9.45" x 1.23" x 0.47"
Regulatory Listing & Safety Approval	UKCA, CE, cETLus		
Environment	Indoor IP20		
Operating Temperature	+5°C to +40°C / +41°F to +104°F		
Storage Temperature	+5°C to +60°C / +41°F to +140°F		
Color	Black		
Humidity	10-90%, non-condensing		
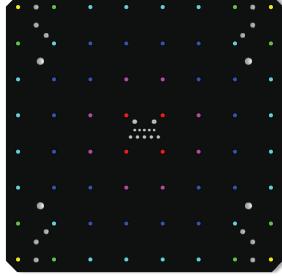
Electrical Specifications

Operating Voltage	24V DC		
Power Consumption	15.5W	3.8W	1.9W

System Specifications

Control	DMX / e:pix
Intensity Dimming Range	0 - 100%
Power Supply	24V DC
Addressing Options	Auto-Addressing

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicated function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.
Lumen measurement compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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Source Specifications

Source	16 SMT RGB LEDs (Individually Controllable)	16 SMT RGB LEDs (Individually Controllable)	8 SMT RGB LEDs (Individually Controllable)
Beam Angle		115°	

Candela Distribution

Relative Luminous Intensity (%): 0

— C0-C180
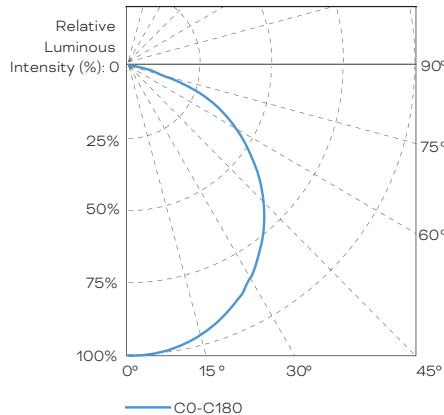
Light Output

Color	Luminous Flux per Meter (lm)	Center Intensity (cd)	Efficacy (lm/W)	Luminance (cd/m²)	Power (W)
RGB (FULL ON)	492.8	174.2	31.8	3025	15.5
RED (ON)	149.3	52.8	22.3	917	6.7
GREEN (ON)	303.1	107.2	59.4	1860	5.1
BLUE (ON)	43.5	15.4	10.6	267	4.1

RGB 16PXL Add-on Board

Color	Luminous Flux per Meter (lm)	Center Intensity (cd)	Efficacy (lm/W)	Luminance (cd/m²)	Power (W)
RGB (FULL ON)	131.8	45.4	34.7	3433	3.8
RED (ON)	37.7	13.5	20.9	1021	1.8
GREEN (ON)	82.2	28.4	58.7	2147	1.4
BLUE (ON)	12.8	4.7	10.7	355	1.2

RGB 8PXL Add-on Strip

Color	Luminous Flux per Meter (lm)	Center Intensity (cd)	Efficacy (lm/W)	Luminance (cd/m²)	Power (W)
RGB (FULL ON)	63.3	22.3	31.7	2950	2.0
RED (ON)	18.1	6.7	18.1	886	1.0
GREEN (ON)	38.4	13.6	48.0	1799	0.8
BLUE (ON)	6.0	2.3	8.6	304	0.7

Illuminance at a Distance

Distance	Center Beam LUX/klm	Beam Width	
0.5m	1453	1.47m / 4.82'	1.6'
1m	363	2.94m / 9.65'	3.3'
1.5m	161	4.41m / 14.47'	4.9'
2.0m	91	5.89m / 19.32'	6.6'
2.5m	58	7.36m / 24.15'	8.2'
3m	40	8.83m / 28.97'	9.8'

Horiz.Spread: 111.6°

For Foot-candle divide by 10.7

IES and LDT files are available for download from the Traxon website.

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Fixture

MEDIA BOARD PLUS 64PXL BOARD RGB BL 31.25 24VDC	240 mm x 240 mm x 12 mm / 9.45" x 9.45" x 0.47"
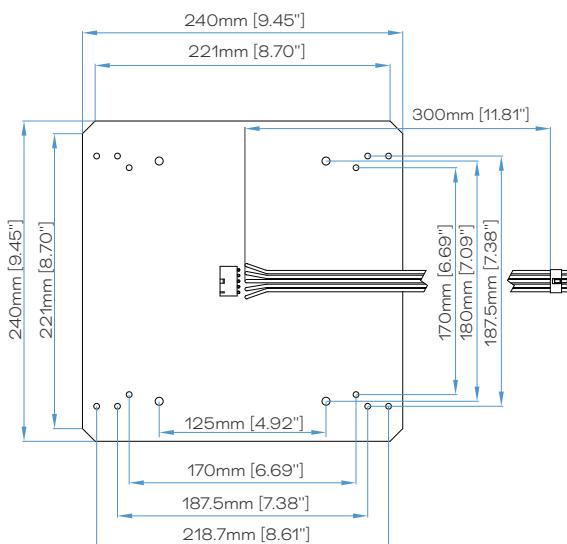
BACK VIEW
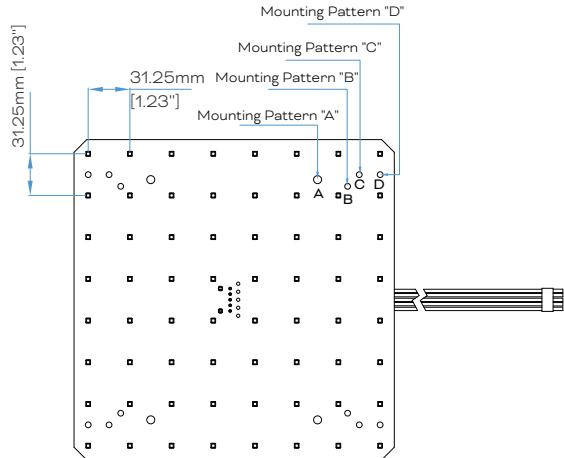
FRONT VIEW
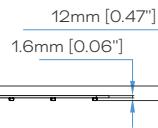
TOP VIEW

MEDIA BOARD PLUS 8PXL ADD ON STRIP RGB BL 31.25 24VDC	240 mm x 31.25 mm x 12 mm / 9.45" x 1.23" x 0.47"

BACK VIEW

FRONT VIEW

TOP VIEW

TRAXON Plus⁺
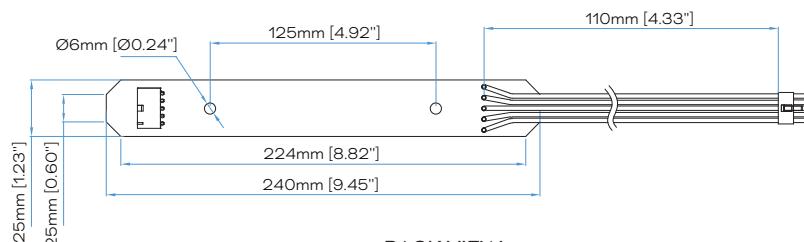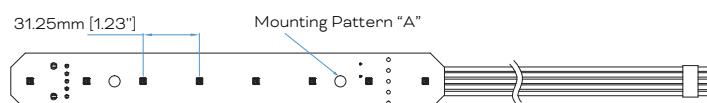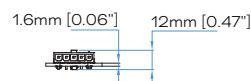
Fixture

MEDIA BOARD PLUS 16PXL ADD ON BOARD RGB BL 31.25 24VDC	115 mm x 115 mm x 12 mm / 4.53" x 4.53" x 0.47"



BACK VIEW

FRONT VIEW

TOP VIEW

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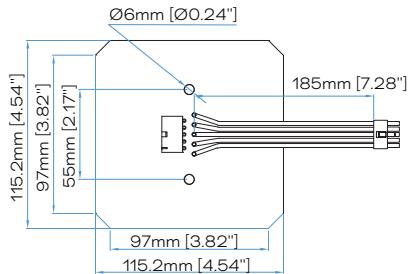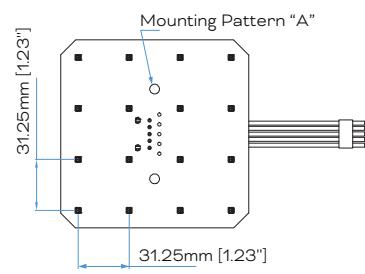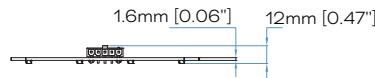
Board Mounting

Mounting spacer (4x)
All Board holder types

Screw (4x)
For Screw Spacer only
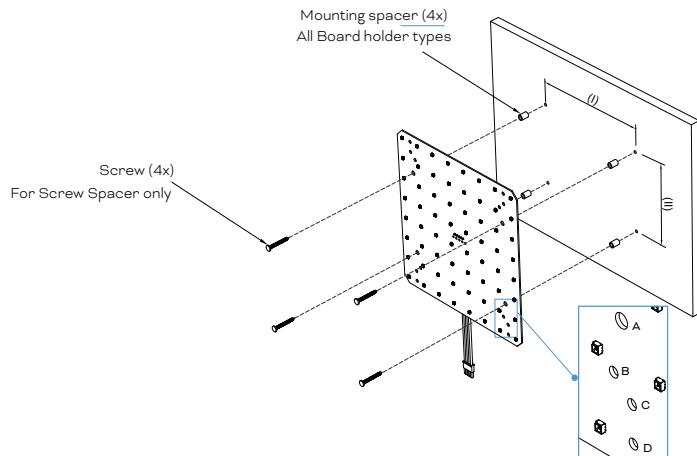
Mounting Pattern:

A: Ø6mm; 180mm (I) and 125mm (II); for use with the supplied spacers and screws.

B: Ø4.3mm; 170mm (I) and 170mm (II); for Board holder drill version and punch version.

C: Ø4.3mm; 187.5mm(I) and 187.5mm (II); for Board holder drill version and punch version.

D: Ø4.3mm; 187.5mm(I) and 218.5mm (II); for Board holder drill version and punch version.

Mounting Multiple Boards

240mm [9.45"]   10mm [0.39"]   10mm [0.39"]   5mm [0.19"]
31.3mm [1.22"]
240mm [9.45"]
240mm [9.45"]
115mm [4.52"]
115mm [4.52"]   31.2mm [1.22"]
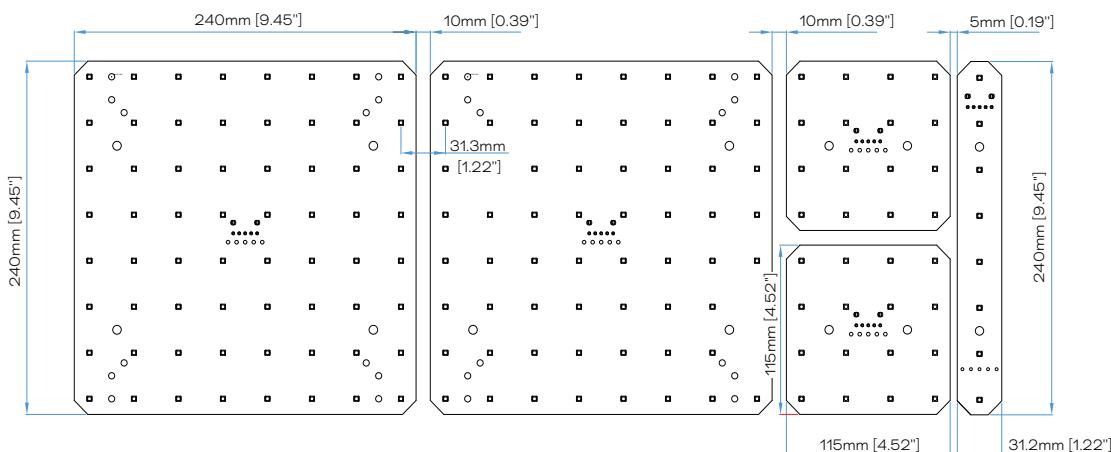
Mounting Accessories

DA24202070555:
BOARD MOUNTING KIT (100x SPACER, 100x SCREWS)

6mm [0.24"]
16mm [0.63"]   1.8mm [0.07"]   3.3mm [0.13"]
Ø8 [0.31"]
Ø4.5 [0.18"]
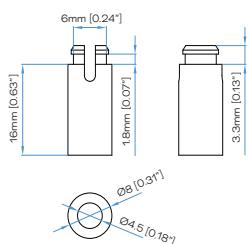
Board mounting kit screw and spacer are suitable for all boards (included).
If additional needs, they can be purchased separately.

DA24102170055:
BOARD HOLDER, PUNCH VERSION (1,5-2MM SHEET METAL; REQUIRES HOLE Ø=5.5MM), 12MM (100x)

4mm [0.16"]   1.5mm [0.06"]   5mm [0.20"]   3.9mm [0.15"]
12mm [0.47"]
5.4mm [0.21"]   1.6mm [0.06"]   5.2mm [0.20"]
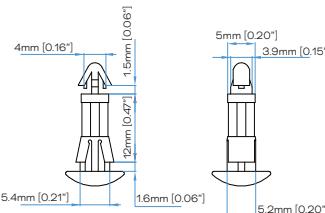
Board holder punch version for sheet metal, it is not suitable for add-on board/strip (by others).
If additional needs, it can be purchased separately.

DA24102170155:
BOARD HOLDER, DRILL VERSION (WOOD; REQUIRES HOLE Ø=8MM, >9MM DEEP), 12MM (100x)

14.3mm [0.56"]   3.1mm [0.12"]
3.7mm [0.15"]
12.3mm [0.48"]
8.8mm [0.34"]
8.5mm [0.33"]   8.5mm [0.33"]

Board holder drill version (Ø4.3mm/Ø0.17") for wood, it is not suitable for add-on board/strip (by others).
If additional needs, it can be purchased separately.

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Wiring Diagram

Select an extension cable based on the distance between the power source and the first board. If the power source is close to the first board, the extension cable may be omitted.

Cable 2
Cable 1
Cable 2
Cable 3
Cable 2

4Pin M
5 Pin M
5 Pin F

IN OUT BACK VIEW (×10)

LED Engine 100W Indoor (24V)
AC Power Cord EU

Power / Data Injector Box
LED Engine 100W Indoor (24V)
AC Power Cord EU
Cable 1

5 x Media Board Plus RGB 64PXL units can be powered by a single LED Engine Smart 100W.
For daisy chaining additional boards, a 240W LED Engine can be used.
The exact number of boards required depends on site conditions and can be calculated using the provided calculation tool.
For larger power supply units (PSUs) or to add additional boards in a chain, please reach out to your local Traxon office for further assistance.

10 x Media Board Plus RGB 64PXL can be daisy chained per controller output (e:pix universe).

Output to groups 2-8
Output to groups 9-16
Output to groups 49-56

Multiple Pro-Nodes

ecue Pro-Node (DMX>e:pix) MAX 80 x 64PXL Board
ecue Pro-Node (DMX>e:pix) MAX 80 x 64PXL Board
ecue Pro-Node (DMX>e:pix) MAX 80 x 64PXL Board

Mains Supply
24V DC via PSU or POE

Lighting Control Engine 3+

24-Port Network switch

Data cable

Cable 1:
TX CON PWR STR CABLE 4PIN MINI F TO 4PIN MINI F
20CM (DA24102175855)
50CM (DA24102175355)
1M (DA24102175455)
5M (DA24102175555)
10M (DA24102175655)

Cable 2:
TX CON EXT CABLE 5 PIN MINI F TO 5 PIN MINI M
50CM (DA24202069555)
1M (DA24202070355)
3M (DA24202069655)
5M (DA24202069755)
10M (DA24202069855)

Cable 3 (DA24202069955):
TX CON PWR INJ CABLE 4 PIN M (PWR IN) TO 5 PIN M (DATA IN)
to 5 PIN F (PWR DATA OUT)

TX CON POWER/DATA INJECTOR BOX 4 PIN POWER + RJ45 to 5 PIN F OUTPUT 300MM (DA24102169955)

Media Board Plus RGB 64PXL (DL24302028055)

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Fixtures

Model No.	Description	Item Code
MB.PS.6421210	MEDIA BOARD PLUS 64PXL BOARD RGB BL 31.25 24VDC	DL24302028055
MB.PS.0823210	MEDIA BOARD PLUS 8PXL ADD ON STRIP RGB BL 31.25 24VDC	DL24202166155
MB.PS.1625210	MEDIA BOARD PLUS 16PXL ADD ON BOARD RGB BL 31.25 24VDC	DL24202166055

Cable / Connector

Description	Item Code
TX CON EXT CABLE 5 PIN MINI F TO 5 PIN MINI M 50CM (20")	DA24202069555
TX CON EXT CABLE 5 PIN MINI F TO 5 PIN MINI M 1M (40")	DA24202070355
TX CON EXT CABLE 5 PIN MINI F TO 5 PIN MINI M 3M (10')	DA24202069655
TX CON EXT CABLE 5 PIN MINI F TO 5 PIN MINI M 5M (16')	DA24202069755
TX CON EXT CABLE 5 PIN MINI F TO 5 PIN MINI M 10M (33')	DA24202069855
TX CON PWR INJ CABLE 4 PIN M (PWR IN) TO 5 PIN M (DATA IN) to 5 PIN F (PWR DATA OUT)	DA24202069955
TX CON PWR STR CABLE 4PIN MINI F TO 4PIN MINI F 50CM (20")	DA24102175355
TX CON PWR STR CABLE 4PIN MINI F TO 4PIN MINI F 1M (40")	DA24102175455
TX CON PWR STR CABLE 4PIN MINI F TO 4PIN MINI F 5M (16')	DA24102175555
TX CON PWR STR CABLE 4PIN MINI F TO 4PIN MINI F 10M (33')	DA24102175655
TX CON PWR STR CABLE 4PIN MINI F TO 4PIN MINI F 20CM (8")	DA24102175855
TX CON POWER/DATA INJECTOR BOX 4 PIN POWER + RJ45 to 5 PIN F OUTPUT 300MM	DA24102169955

Power Supply

Description	Item Code
LED ENGINE SMART 100W INDOOR (24V)	AA624090055
LED ENGINE 240W OUTDOOR WITH 4-PIN MALE CONNECTOR	DA24102291555
AC POWER CORD, 2M (6,6FT) (EU)	AA553860055
AC POWER CORD, 2M (6,6FT) (US)	AA556290055
AC POWER CORD, 2M (6,6FT) (UK)	AA556300155

Mounting Accessories

Description	Item Code
BOARD MOUNTING KIT (100X SPACER, 100X SCREWS)	DA24202070555
BOARD HOLDER, PUNCH VERSION (1,5-2MM SHEET METAL; REQUIRES HOLE Ø=5.5MM), 12MM (100X)	DA24102170055
BOARD HOLDER, DRILL VERSION (WOOD; REQUIRES HOLE Ø=8MM, >9MM DEEP), 12MM (100X)	DA24102170155

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