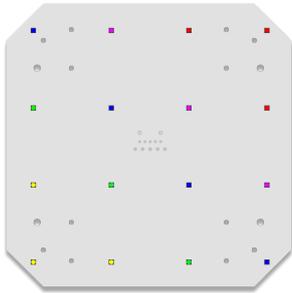# TRAXON Plus⁺

Media Board Plus RGB 16PXL

Project: _____
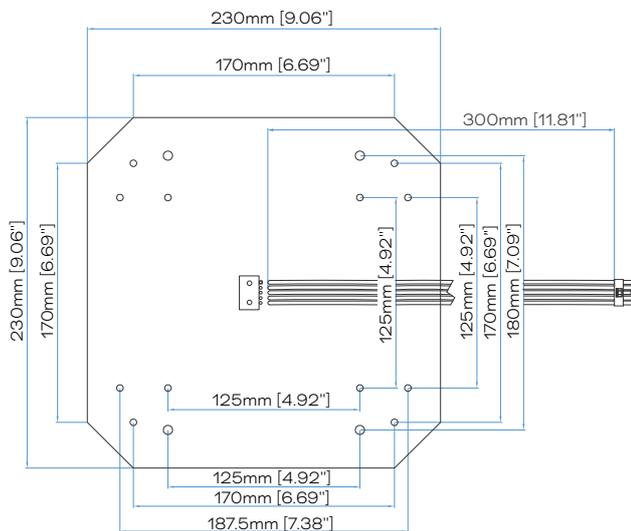
Type: _____

IP20 Indoor   DMX 512   E:PIX

The Media Board Plus RGB 16PXL features color-calibrated, controllable ultra-bright SMT LEDs on a 4 x 4 matrix with a 62.5mm / 2.5" pitch, ensuring precise white balance and delivering vivid and vibrant colors. Use the Media Board Plus for dynamic low resolution media displays, backlighting and lighting effects that blend into the fabric of the environment to bring it to life. Paired with our Add-On Boards, or our higher density Media Board Plus RGB 64PXL, the Board family provides expanded creative possibilities for even more stunning and intricate visual effects.

Technologies

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

Features

- 16 individually controlled RGB Pixels DMX / e:pix Control

- Auto-Addressing

Color Options

RGB

RGBW 6500K

Customization

Dimensions

230mm [9.06"]
170mm [6.69"]
300mm [11.81"]
230mm [9.06"]
170mm [6.69"]
125mm [4.92"]
125mm [4.92"]
170mm [6.69"]
180mm [7.09"]
125mm [4.92"]
125mm [4.92"]
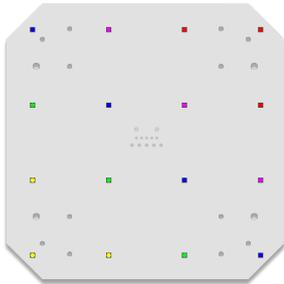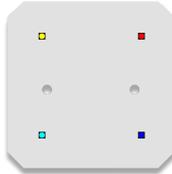170mm [6.69"]
187.5mm [7.38"]

BACK VIEW

Viewing Angles

140°

Finish

White
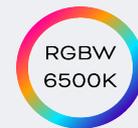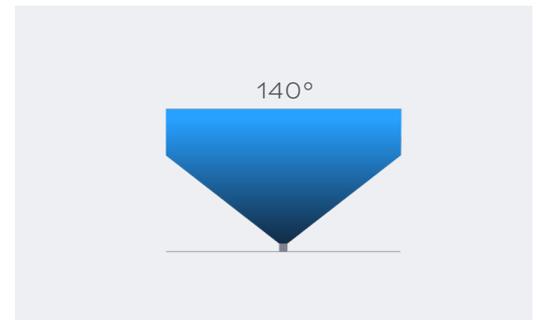
Product Specifications

	RGB 16PXL Board	RGB 4PXL Add-on Board	RGB 4PXL Add-on Strip
RGB 16PXL Family			
Light Source (LEDs)	16 SMT RGB LEDs (Individually Controllable)	4 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	179 lm	43 lm	
Luminance	1198 cd/m² (nits) calibrated	1362 cd/m² (nits) calibrated	1626 cd/m² (nits) calibrated
LED Pitch	62.5 mm / 2.5"		
Efficacy	32 lm/W	31 lm/W	
Lumen Maintenance	L70 @ 25 °C - 50'000 hours		
Light Intensity	63 cd calibrated	15 cd calibrated	
Housing	PCB		
Weight	0.23kg / 0.51lbs	0.06kg / 0.13lbs	
Dimensions (L x W x H)	230 mm x 230 mm x 12 mm 9.06" x 9.06" x 0.47"	105 mm x 105 mm x 12 mm 4.13" x 4.13" x 0.47"	230 mm x 42.5 mm x 12 mm 9.06" x 1.67" x 0.47"
Regulatory Listing & Safety Approval	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	White		
Humidity	10-90%, non-condensing		

Electrical Specifications

Operating Voltage	24V DC	
Power Consumption	5.6W	1.4W

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.

TRAXON Plus⁺

Source Specifications

	RGB 16PXL Board	RGB 4PXL Add-on Board	RGB 4PXL Add-on Strip
Light Source (LEDs)	16 SMT RGB LEDs (Individually Controllable)	4 SMT RGB LEDs (Individually Controllable)	
Beam Angle	115°		

Candela Distribution

C0-C180
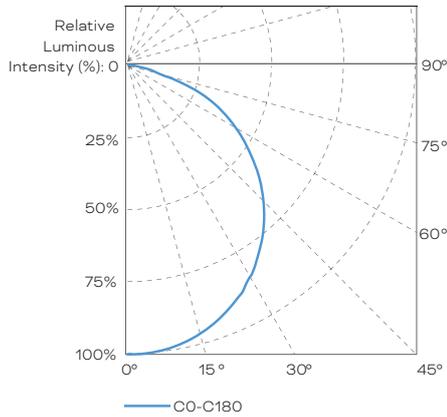
Light Output

RGB 16PXL Board

Color	Luminous Flux per Meter (lm)	Center Intensity (cd)	Efficacy (lm/W)	Luminance (cd/m²)	Power (W)
RGB (FULL ON)	179.2	63.4	33.2	1198	5.4
RED (ON)	54.3	19.2	21.7	363	2.5
GREEN (ON)	110.2	39.0	52.5	737	2.1
BLUE (ON)	15.8	5.6	10.5	106	1.5

RGB 4PXL Add-on Board

Color	Luminous Flux per Meter (lm)	Center Intensity (cd)	Efficacy (lm/W)	Luminance (cd/m²)	Power (W)
RGB (FULL ON)	42.5	15.0	30.4	1362	1.4
RED (ON)	12.9	4.6	18.4	413	0.7
GREEN (ON)	26.1	9.2	43.5	838	0.6
BLUE (ON)	3.7	1.3	7.4	120	0.5

RGB 4PXL Add-on Strip

Color	Luminous Flux per Meter (lm)	Center Intensity (cd)	Efficacy (lm/W)	Luminance (cd/m²)	Power (W)
RGB (FULL ON)	45.2	15.9	32.3	1626	1.4
RED (ON)	12.3	4.6	17.6	466	0.7
GREEN (ON)	28.2	10.0	47.0	1023	0.6
BLUE (ON)	3.8	1.5	7.6	153	0.5

Illuminance at a 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.

TRAXON Plus⁺

Fixture

MEDIA BOARD PLUS 16PXL BOARD RGB WT 62.5 24VDC	230 mm x 230 mm x 12 mm / 9.06" x 9.06" x 0.47"

230mm [9.06"]
170mm [6.69"]
300mm [11.81"]
230mm [9.06"]
170mm [6.69"]
125mm [4.92"]
125mm [4.92"]
125mm [4.92"]
170mm [6.69"]
180mm [7.09"]
125mm [4.92"]
170mm [6.69"]
187.5mm [7.38"]

BACK VIEW

Mounting Pattern "D"
Mounting Pattern "C"
Mounting Pattern "B"
Mounting Pattern "A"

C A
D B

FRONT VIEW

1.6mm [0.06"]
12mm [0.47"]
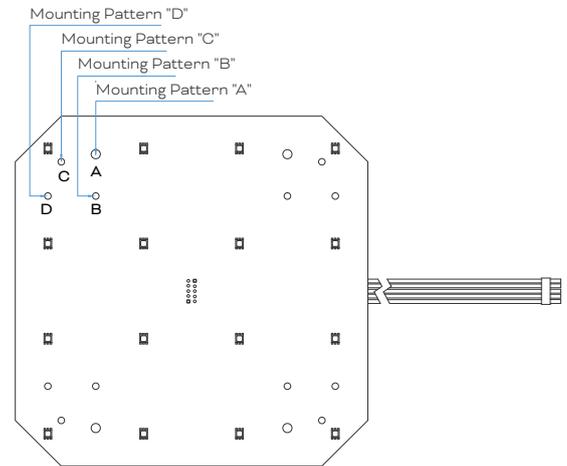
TOP VIEW

MEDIA BOARD PLUS 4PXL ADD ON STRIP RGB WT 62.5 24VDC	230 mm x 42.5 mm x 12 mm / 9.06" x 1.67" x 0.47"

42.5mm [1.67"]
22.5mm [0.89"]
Ø6mm [Ø0.24"]
125mm [4.92"]
110mm [4.33"]
210mm [8.27"]
230mm [9.06"]

BACK VIEW

Mounting Pattern "A"

62.5mm [2.46"]

FRONT VIEW

1.6mm [0.06"]
12mm [0.47"]

TOP VIEW

www.traxon-ecue.com

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Product Specification   V1.1 03/25   4 of 8

TRAXON Plus⁺
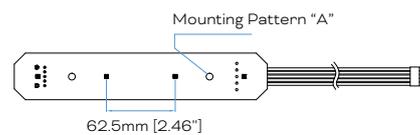
Fixture

MEDIA BOARD PLUS 4PXL ADD ON BOARD RGB WT 62.5 24VDC	105 mm x 105 mm x 12 mm / 4.13" x 4.13" x 0.47"
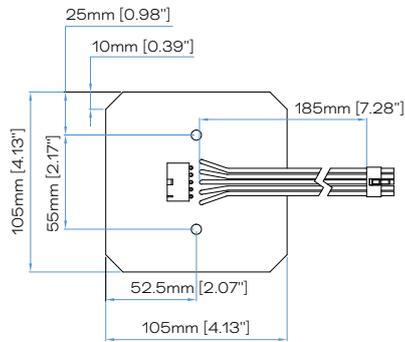
BACK VIEW

FRONT VIEW

TOP VIEW

www.traxon-ecue.com

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Product Specification   V1.1 03/25   5 of 8

TRAXON Plus⁺
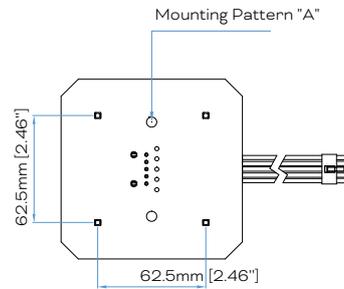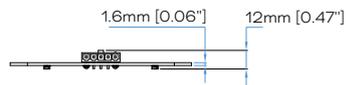
Board Mounting

Mounting spacer (4x)
All Board holder types

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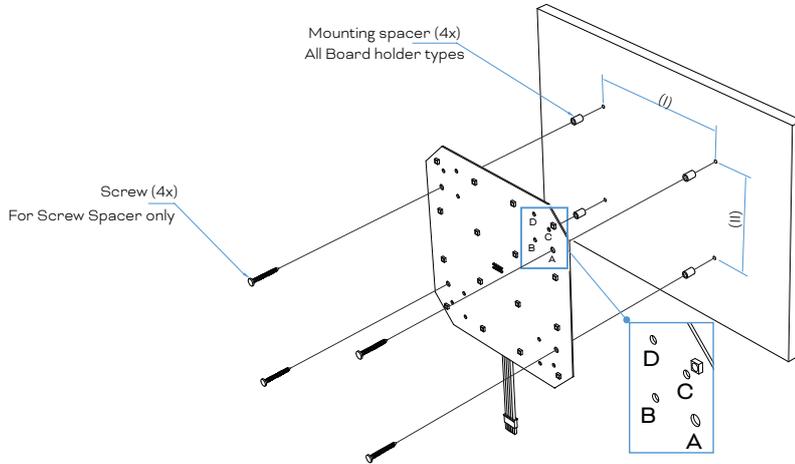
Mounting Pattern:

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

B: Ø4.3mm; 125mm (I) and 125mm (II); for Board holder drill version and punch version.

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

D: Ø4.3mm; 125mm(I) and 187.5mm (II); for Board holder drill version and punch version.

Mounting Multiple Boards
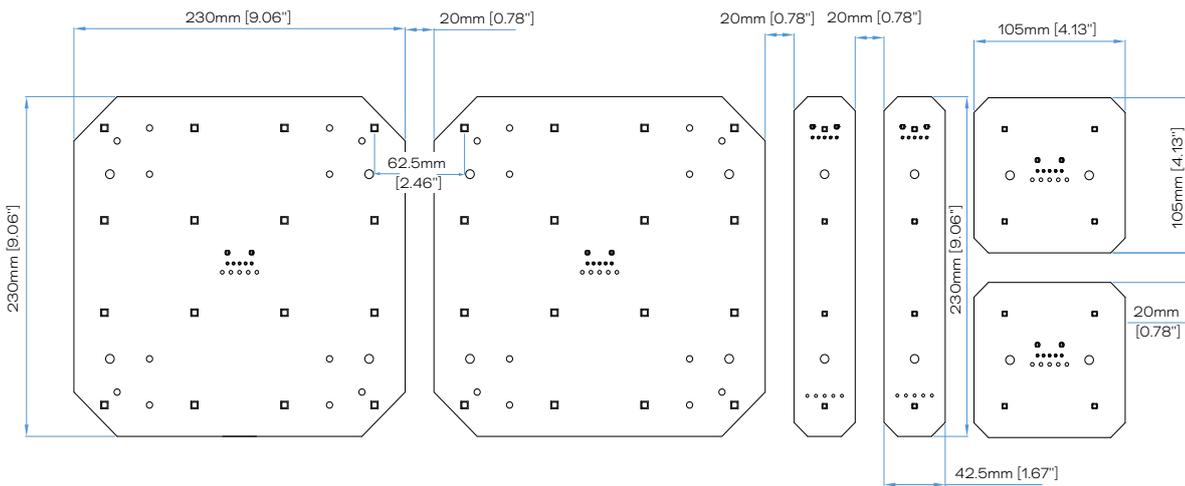
Mounting Accessories

DA24202070555:
BOARD MOUNTING KIT (100x SPACER, 100x SCREWS)
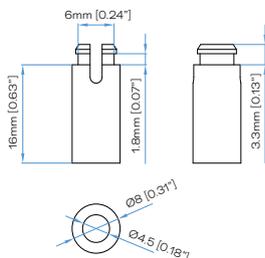
Board mounting kit screw and spacer are suitable for all boards (included).
If additional needs, they can be purchased separately.

DA24102170055:
BOARD HOLDER, PUNCH VERSION (1,5-2MM SHEET METAL; REQUIRES HOLE Ø=5.5MM), 12MM (100x)
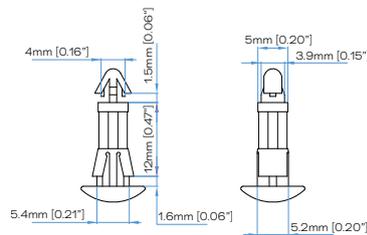
Board holder punch version for sheet metal, it is not suitable for add-on board/strip (by others).
If additional needs, it can be purchased separately.

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

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.

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.

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

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

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

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

13 x Media Board Plus RGB 16PXL 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 depends on site conditions and can be determined using the calculation tool.
For larger power supply units (PSUs) and additional boards in a chain, please contact your local Traxon office for further assistance.

40 x Media Board Plus RGB 16PXL can be daisy chained per controller output (e:pix universe).

Output to groups 2-8
Output to groups 9-16
Multiple Pro-Nodes
Output to groups 49-56
Lighting Control Engine 3+

Mains Supply
ecue Pro-Node (DMX>e:pix) MAX 320 x 16PXL Board
24V DC via PSU or POE

Mains Supply
ecue Pro-Node (DMX>e:pix) MAX 320 x 16PXL Board
24V DC via PSU or POE

Mains Supply
ecue Pro-Node (DMX>e:pix) MAX 320 x 16PXL Board
24V DC via PSU or POE

Data cable
Data cable
Data cable
24-Port Network switch

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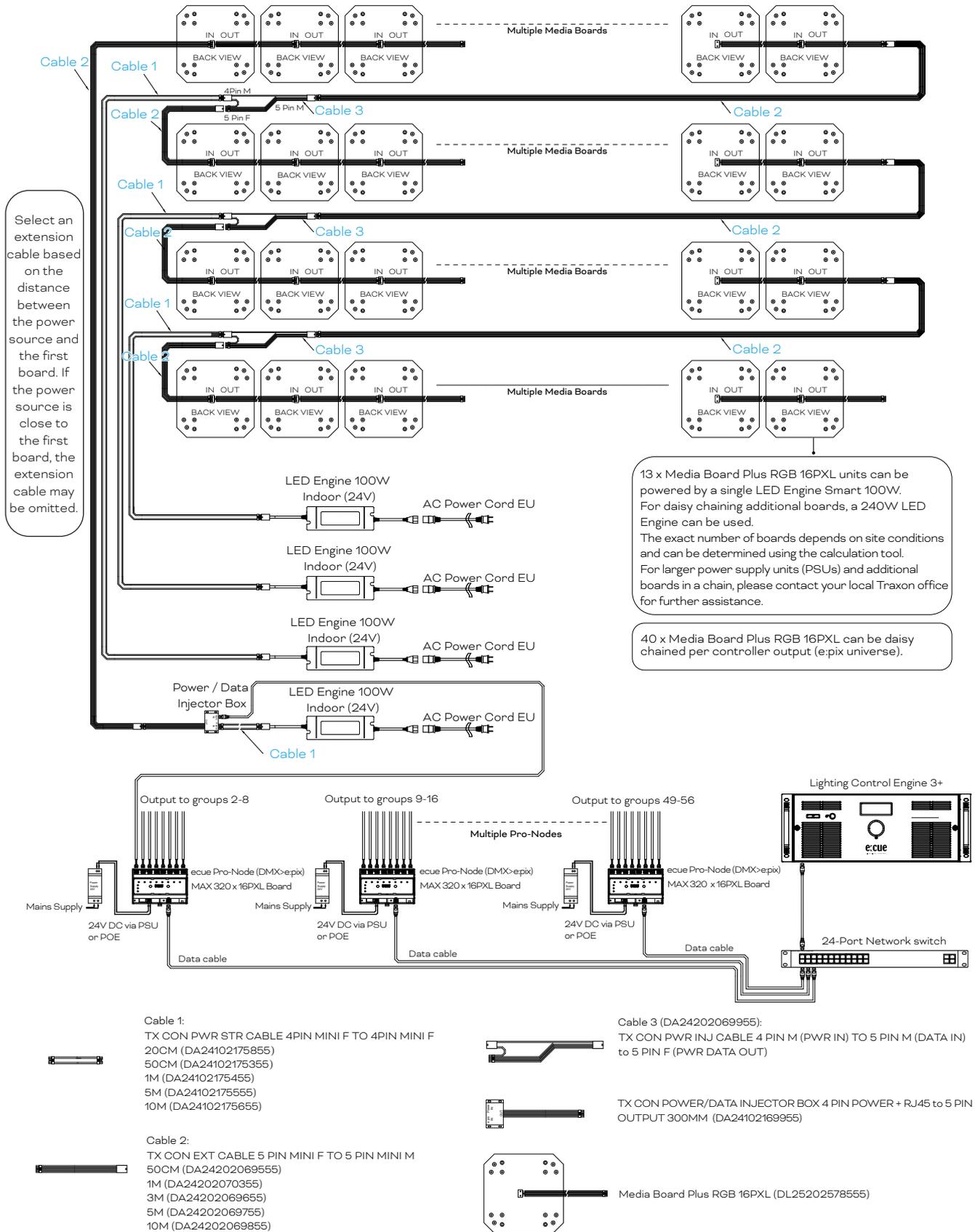1M (DA24102175455)
5M (DA24102175555)
10M (DA24102175655)

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 16PXL (DL25202578555)

TRAXON Plus⁺

Fixtures*

Model No.	Description	Item Code
MB.PS.162211A	MEDIA BOARD PLUS 16PXL BOARD RGB WT 62.5 24VDC	DL25202578555
MB.PS.042411A	MEDIA BOARD PLUS 4PXL ADD ON STRIP RGB WT 62.5 24VDC	DL25202578655
MB.PS.042611A	MEDIA BOARD PLUS 4PXL ADD ON BOARD RGB WT 62.5 24VDC	DL25202578755

* Pixel orientation matches our Media Board Plus 64PXL.

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 F (DATA IN) to 5 PIN M (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