

  64PXL Board RGB 		
MB.BO.7214000	The Traxon 64PXL Board RGB features 64 individually controllable ultra bright SMD LEDs on a 8 x 8 matrix with a 31.25mm pitch. Although the LEDs provide ultra brightness, high resolution videos and graphic replays can be created by combining multiple boards. TX Control with advanced DMX control and Smart Chip technology lets the 64PXL Board excel in near to any backdrop applications.	 
		  
		 INDOOR

PRODUCT SPECIFICATIONS

- **Light Source:** 64 High intensity Nichia SMD LEDs (individually controllable)
- **Color Range:** 16.7 million additive RGB colors
- **Color Resolution:** 3 x 12-bit (Gamma correction)
- **Viewing Angle:** 120°
- **Cover Lens:** N/A
- **LED Pitch:** 31.25mm / 1.23"
- **Housing:** N/A
- **Adjustment Options:** N/A
- **Size:** 240mm x 240mm x 11.5mm / 9.45" x 9.45" x 0.45"
- **Weight:** 250g/0.55lbs
- **Regulatory Listing & Safety Approval:** CE, FCC, cETLus
- **Operating Temperature:** 0°C to 50°C / 32°F to 122°F
- **Storage Temperature:** -20°C to +70°C / -4°F to 158°F
- **Rating:** Indoor
- **Humidity:** 0 to 90% non-condensing

ELECTRICAL SPECIFICATIONS

- **Operating Voltage:** 24V DC
- **Power Consumption:** 24W max.

SYSTEM SPECIFICATIONS

- **Power/Data Interface:** TX CONNECT Smart Indoor
- **Control:** DMX512; e:pix; DVI capable
- **Power Supply:** LED Engine Smart 100W Indoor [PS.IA.0010000] / LED Engine Smart 300W Indoor [PS.IB.7030000]
- **Addressing Options:** DMX 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 complicate 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.

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SOURCE SPECIFICATIONS

Source: 64 LEDs packaged in RGB

Optics: 110°

Cover Lens: N/A

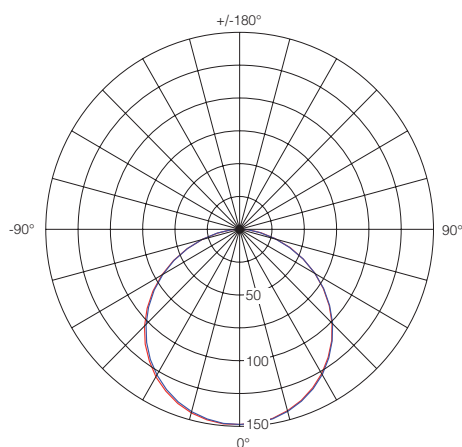
Distribution: Symmetric direct illumination

CCT: -

CANDELA DISTRIBUTION

LIGHT OUTPUT

- Measured on: White
- Viewing angle (50% I_{max}): 115°



Color	Total Output (lumens)	Power (Watts)	Efficacy (Lm/W)
White	429.2	14.42	29.76
Red	130.1	4.82	26.99
Green	270.2	7.82	34.55
Blue	39.5	3.84	10.29

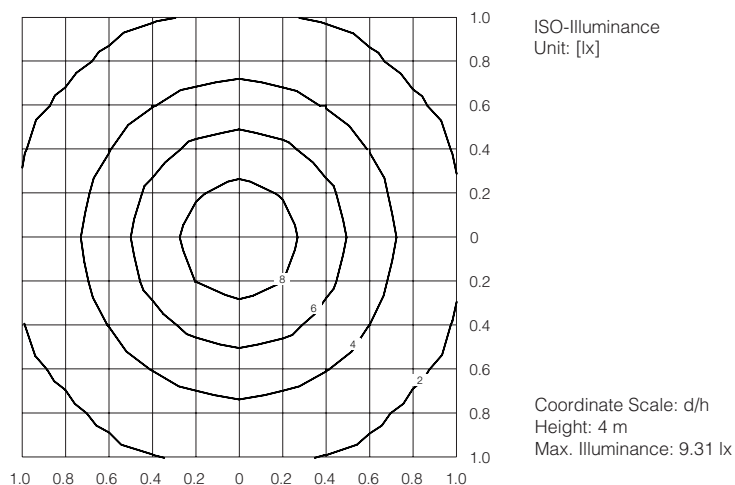
- Luminance: 2587 cd/m² (nits)

ILLUMINANCE

Distance	10cm/3.9"	25cm/9.8"	50cm/19.7"	75cm/29.5"	100cm/39.4"
Lux	14900	2384	596	265	149
50% I _{max} (diameter)	31cm/12.2"	78cm/30.7"	157cm/65.7"	235cm/61.8"	314cm/123.6"

- Measured on: White

ILLUMINANCE DISTRIBUTION



Photometric measurements are carried out by an independent laboratory.
IES and LDT files are available for download from the Traxon website.

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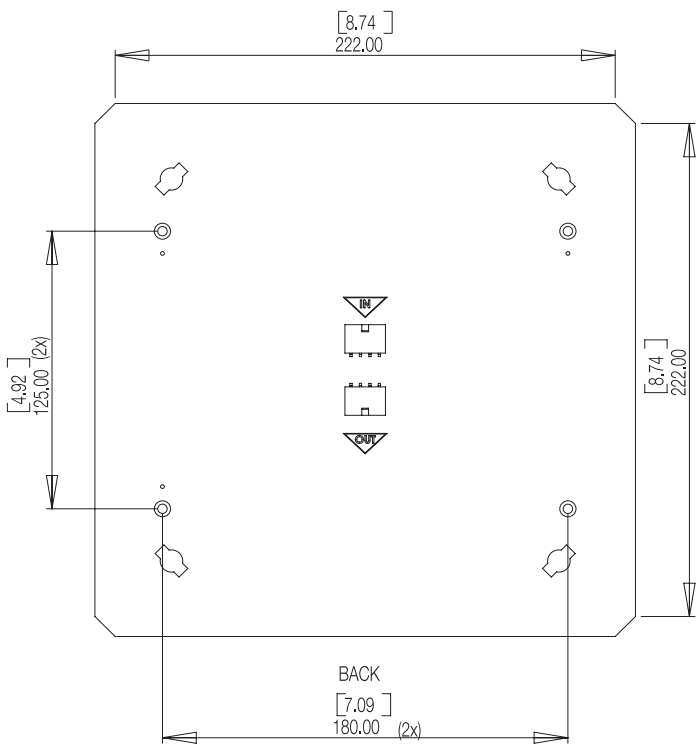
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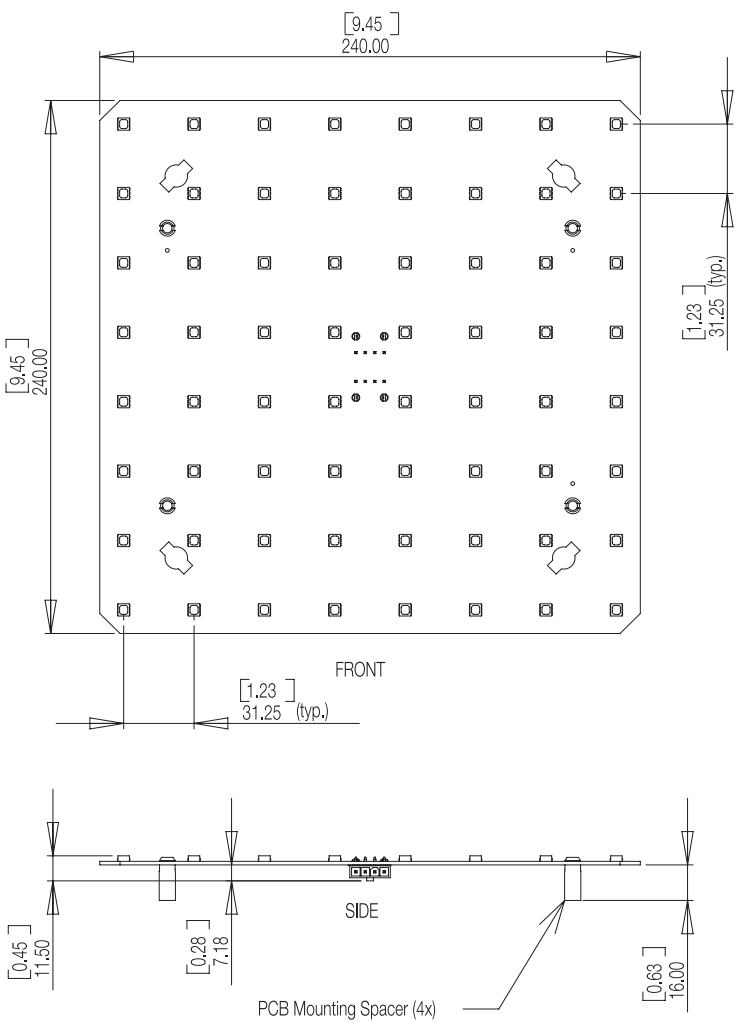
64PXL Board RGB

Dimensions

TECHNICAL DRAWING



Dimensions in mm [in]

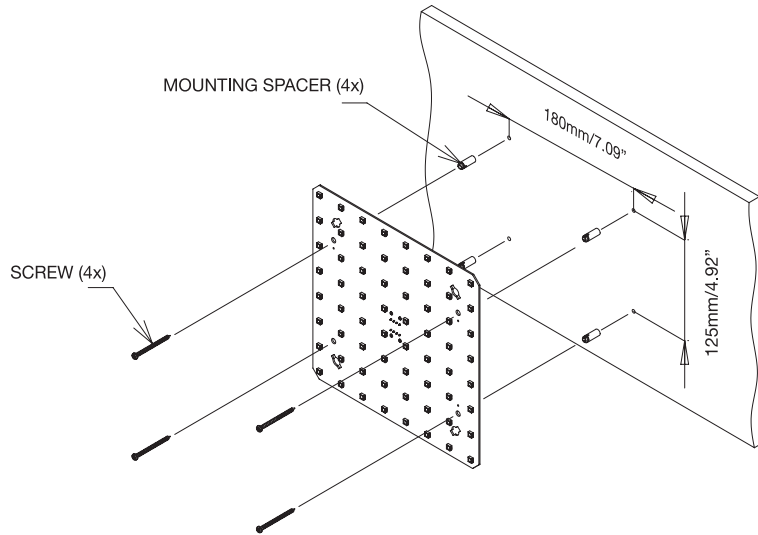


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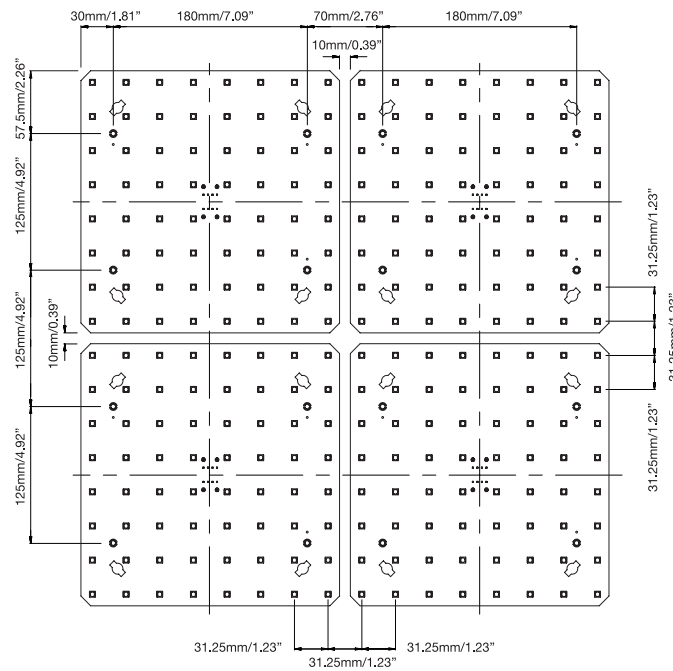
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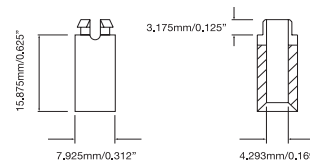
MOUNTING



Mounting multiple boards



Mounting Accessories



Nylon Spacer Dimensions

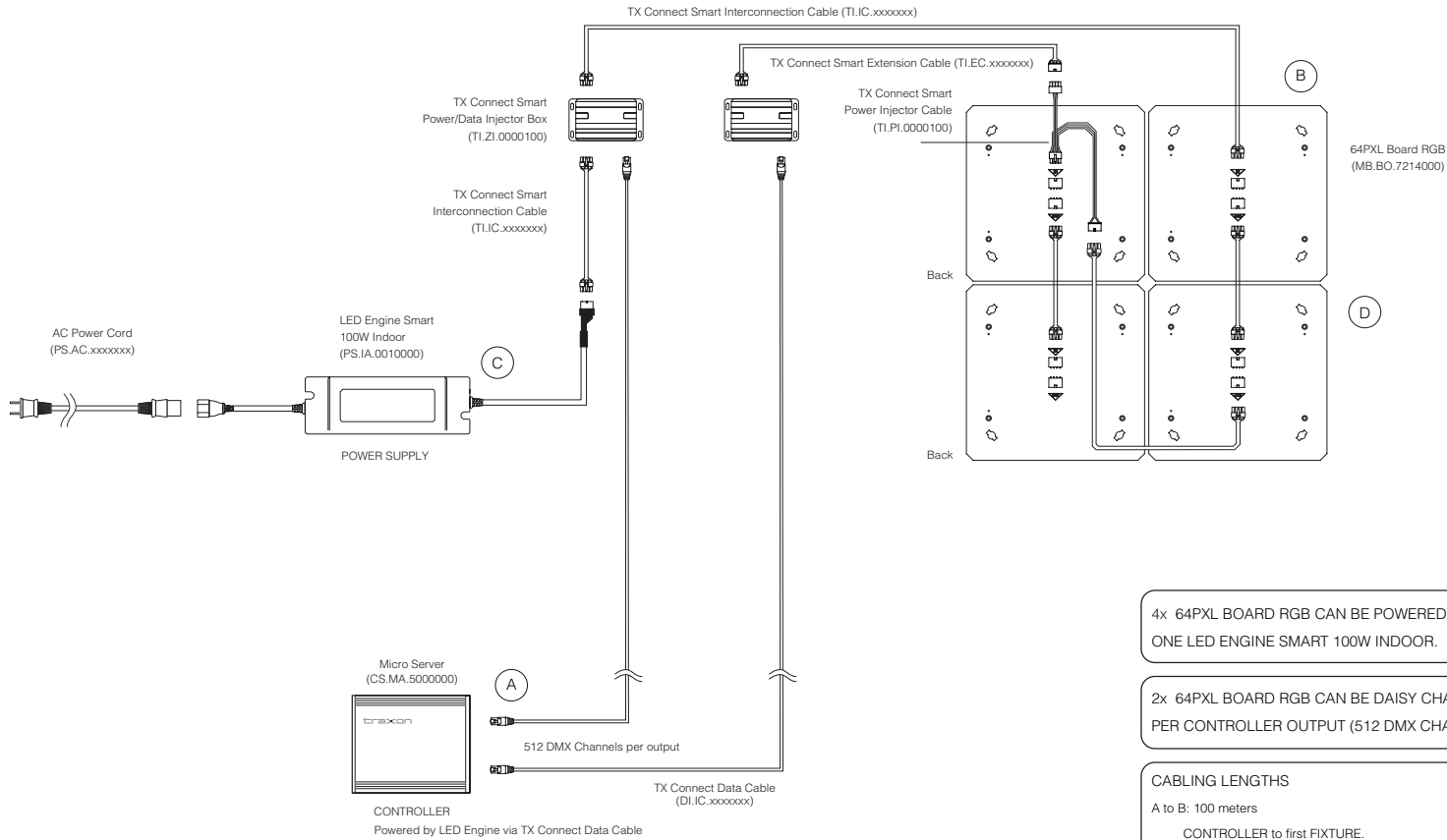
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64PXL Board RGB

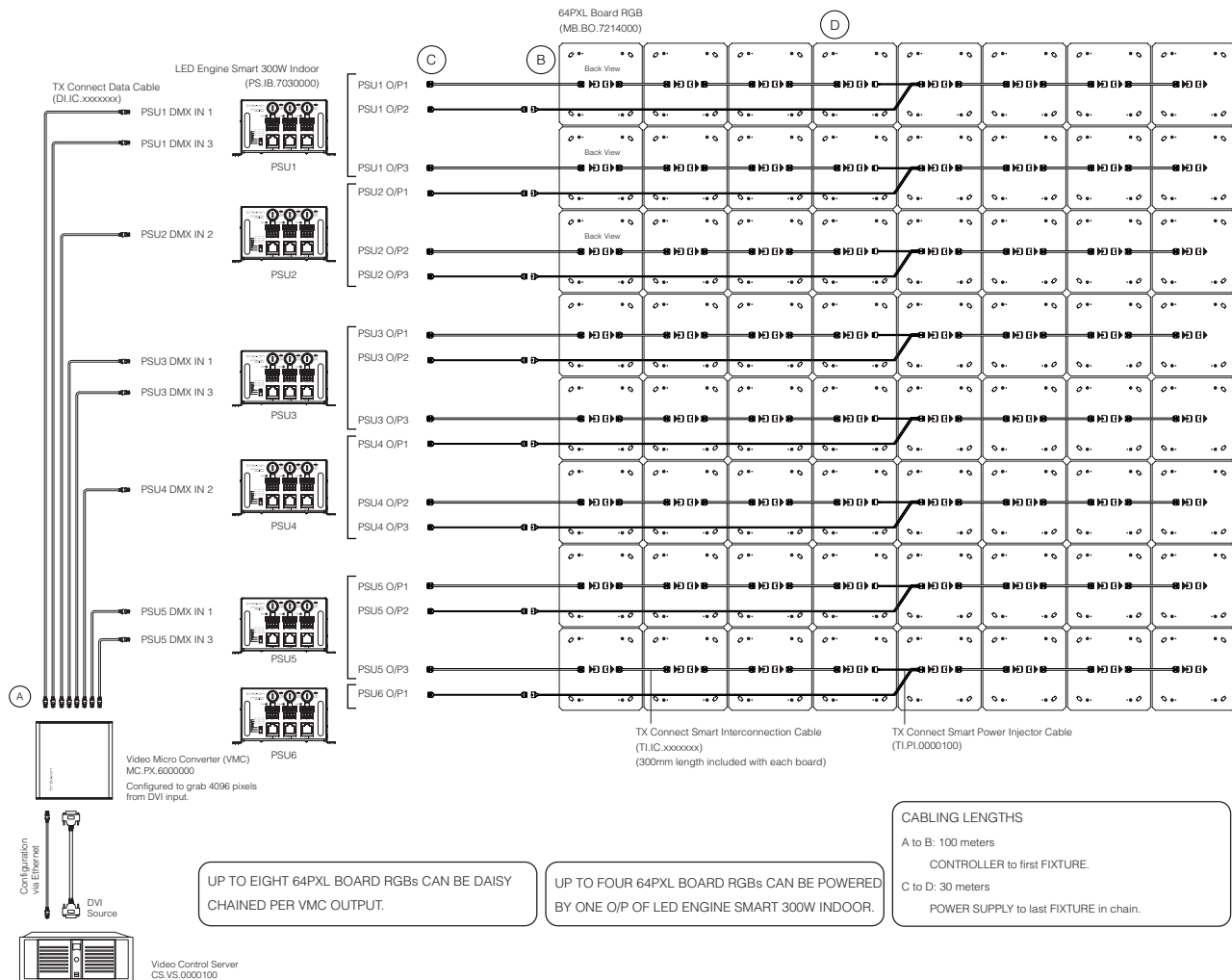
System Diagram

SYSTEM DIAGRAM





SYSTEM DIAGRAM





64PXL Board RGB

Accessories

STANDARD ACCESSORIES (included in delivery)

Model No.	Description
TI.IC.0030000	TX CONNECT Smart Indoor Interconnection Cable, 0.3m / 11.82"
	1x Board Mounting Kit (4x Nylon Spacers, 4x Mounting Screws)

ADD-ON STRIP AND BOARD

Model No.	Description
MB.ST.7213000	8PXL Add-On Strip RGB (31.25)
MB.BO.7110100	16PXL Add-On Board RGB (31.25)

TX CONTROL

Model No.	Description
CS.MA.5000000	Micro Server
MC.PX.6000000	Video Micro Converter

TX CONNECT

Model No.	Description
TI.ZI.0000100	TX CONNECT Smart Power/Data Injector Box
TI.PI.0000100	TX CONNECT Smart Power Injector Cable
TI.EC.0050000	TX CONNECT Smart Indoor Extension Cable, 0.5m / 1.64ft
TI.EC.0100000	TX CONNECT Smart Indoor Extension Cable, 1m / 3.28ft
TI.EC.0300000	TX CONNECT Smart Indoor Extension Cable, 3m / 9.84ft
TI.EC.0500000	TX CONNECT Smart Indoor Extension Cable, 5m / 16.4ft
TI.EC.1000000	TX CONNECT Smart Indoor Extension Cable, 10m / 32.8ft
DI.IC.0100000	TX CONNECT Data Cable, 1m/3.28ft

TX POWER

Model No.	Description
PS.IA.0010000	LED Engine Smart 100W Indoor
PS.IB.7030000	LED Engine Smart 300W Indoor
PS.AC.0000100	AC Power Cord (EU)
PS.AC.0000200	AC Power Cord (US)
PS.AC.0000300	AC Power Cord (UK)
PS.AC.0000400	AC Power Cord (AU)
PS.AC.0000500	AC Power Cord (JP)