



MADE IN ITALY

TREXPRO e un prodotto ideale per applicazioni dove sono applicati diversi canali per il controllo di led, infatti posso essere serializzati fino a 3072 canali sulla stessa porta di uscita, il TREXPRO dispone di 8 porte di uscita sincrone (SPI) queste permettono di trasmettere 3072 canali a 45 fps, rendendo questo dispositivo decisamente piu veloce del DMX.

TREXPRO dal lato del controllo è visto come se fosse un nodo ART NET con 24 universi, permettendo con un unico cavo ethernet di controllare circa 24000 canali a 45fps.E' possibile anche controllare 2040 canali a 60fps.

Ogni modulo a led utilizzato con TREXPRO si autoindirizza e riamplifica il segnale di dato e clock, permettendo di estendere linee fino a 35 metri con 3072 canali, occorre solo rilanciare la alimentazione dei moduli led che puo essere da 12 fino a 48vdc. Ogni uscita del TREXPRO è protetta da errori di cablaggio elettrico e da sovratensioni applicate sulle uscite. Ogni connettore utilizzato è del tipo Ip67.

TREXPRO e progettato per applicazioni in door e out door, Ip65 temperatura ambiente -25/80 gradi C, contenitore pressofuso in allumini 313x407x157.

E' possibile controllare oltre che a dispositivi SPI anche dispositivi del tipo:

WS2811/WS2812/WS2812B/APA104/APA106/SK6812.



TREXPRO product is suited for application in video Wall or for a large number of led module that use many DMX universe, this unit receive ARTNET and convert to sincronous (SPI) serial mode, using CK and DATA, this allow very fast communication between led driver.

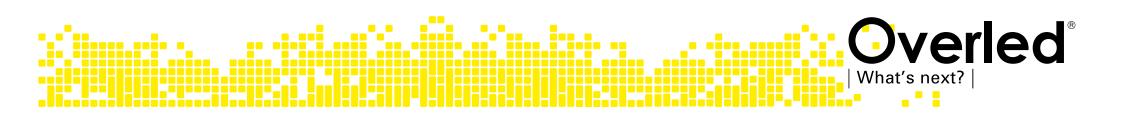
T-Rex Pro have 8 channel, capable to drive up to 3072 channel each output, at very high speed 45fps or 2040 channel at 60fps, the synchronous signal (CK,DATA) is amplified by luminaire and it is also self addressed by each light segment connected. The power supply for the luminaire must applied externally and can be from 12 up to 48 vdc.

The distance from T-Rex Pro and luminaire must be less then 15 mt., a female IP67 M8 connector is provided cable with 0.5mm must be used for signal, power supply is applied on a 3 pole for power supply (100-260vac, or 350 vdc max.). Skin top for Ethernet cable is provided for connection to network at 100Mb. Each Trexpro can be connected to main ethernet switch, each SPI output is protected from high voltage and miswiring.

The SPI port can be also converted to be used with led driver: WS2811/WS2812/WS2812B/APA104/APA106/SK6812.

The SPI protocol, is very high speed then DMX, with TREXPRO the DMX console can see SPI like DMX but 5 time faster, 2040 channel in 60fps, usually DMX is 40 fps on 512 channel.

TREXPRO is ip65 can work out door or in door from -25 up to 80 degree C, aluminium die cast case 313x407x157 mm.





TrexPro

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Connector location and electrical

TECHNICAL SPECIFICATION

8 synchronous port

max 1024 RGB pixel per port

Total pixel per unit 8192

Total DMX address 24576

Total universe per T-Rex Pro 48

Ethernet 100mb interface

ART NET compatible

Video RAPTOR compatible (video converter to ART NET 3000 DMX universe) - all Artnet sw

Power supply 100-260vac 50-60hz 150-350vdc 30W

IP rating 65

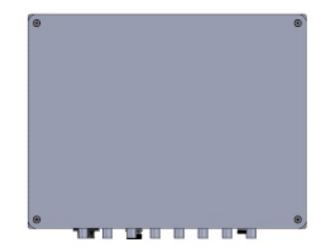
Display setting

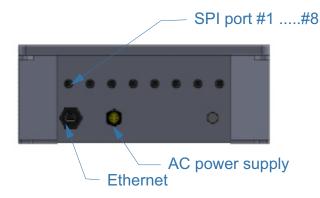
Refresh rate 60 fps max

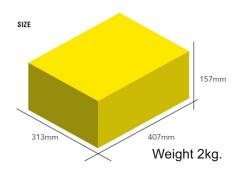
T-REX PRO

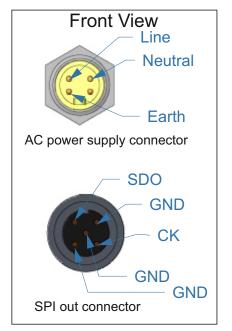
Operating temperature -20 up to +80

Die cast aluminium box ip 65, very robust







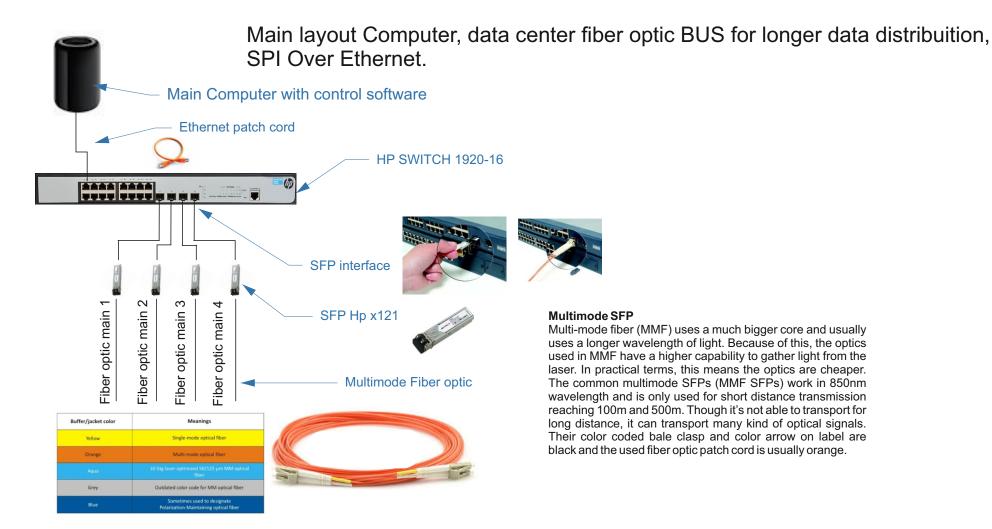










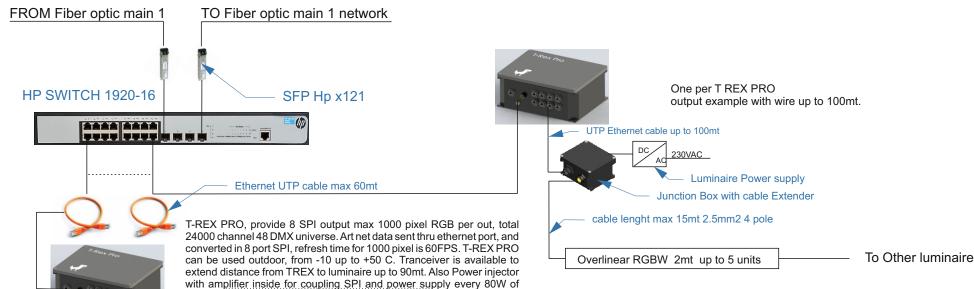








Main layout of 1st Main fiber optic BUS and overlinear RGBW led bar



ART NET port (Ethernet)

4 pole 0.5mm2 Cable lenght max 15mt.

Cable lenght max 1 mt 2.5mm2

Power supply

Power supply

Overlinear RGBW 2mt up to 5 units

M8 connector

One per T REX PRO output example with wire no more longer then 15mt

Power supply

Overlinear RGBW 2mt up to 5 units

One per T REX PRO output example with wire no more longer then 15mt

Power supply

Overlinear RGBW 2mt up to 5 units

Total 35 meters or 3070 channels

luminaire.

JUNCTION BOX is required in case of connecting cable longer then 15 mt, this box can amplify signal from TREXPRO up to 100mt using balanced high speed data transmisison. Luminaire power supply is connected in this box for luminaire power supply.







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Junction BOX SPI

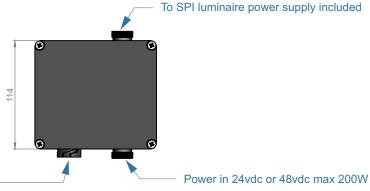
Junction BOX is used as cable extender from TREX PRO to first luminaire, this unit need power supply that used for luminarie, the voltage range is 12-48vdc, max current 150W, lp67 connectors are provided for power supply and luminaire. The cable from Juction box and luminaire must be less then 15mt, and cable section 2.5mm, for power supply and data signal.

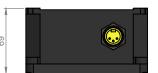
The box housing is die cast Ip65 rating.

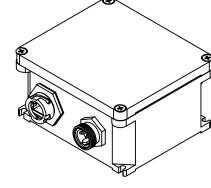
Ambient temperature -25/80 degree C. Power consumption of Junction box @24vdc 200mA Connector max current 6A UTP Ethernet cable lenght max 100mt

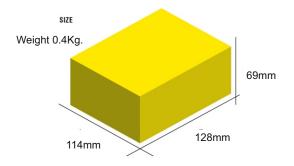
To Trex pro using UTP shielded cable



















Power injector in ip65 boxed



To next luminaire

Input Data signal from luminaire

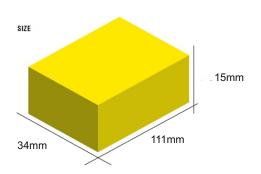
Power supply input

Power Injector is used for coupling to power supply a new line of luminaire in daisy chain, amplifing data and clock signal from the previous luminaire to the next.

This module is required every time a power supply is needed to extend luminaire line, the number of meter depend on the luminaire specification, and the maximum controllable channels from TREXPRO.

The box housing is plastic mould Ip65 rating.

Ambient temperature -25/80egree C.
Power consumption of Junction box @24vdc 100mA
Connector max current 4A m8 type
Power supply input 12 up to 48Vdc.







Power per meter

Operating Temperature TC

Life Time (25C° PCB surface)

Luminous intensity per meter/Blu

THERMAL

W

C°

h/24

5,5

75

55000

Trex Pro ART NET to SPI converter 8 channel



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Overlinear RGB FLEX STRIP led with SPI for Trex Application



100

	unit	Typical		unit	Typical
OPTICAL			MECHANICALS		
Led per meter		56	Width	mm	10
Led model		3528	Lenght	mt	4,5
Light emission angle		120	Cutting unit	mm	250
Pixel per meter		4			Max
Luminous efficiency	W/m	32	Pull Force	N	1
Luminous intensity per meter/Red	cd/mt	33	Pelling resistance	N/mm	0,8
Luminous intensity per meter/Green	cd/mt	55	Flexible resistance	Cycles	8

Max curve

DDS900-SPI is a 5,5 W meter led strip with 56 led 3528 RGB per meter. DDS900-SPI for MBI use SPI protocol to control each led individually. To produce our indoor flexible LED strips, we use RGB high quality LEDs, gold plated flexible double side PCB and constant current control inside the LED strip. Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting suface. All of our product features guarantee extra long lifetime and stable performance. Our flexible LED light strips are designed for long term professional lighting applications and perfectly fit in any linear applications.

This Flexible strip led can be fitted in silicone extrusion tube 1515, up to 5 meters.









Overlinear Aluminium bar RGBW led with SPI for Trex Application

Overlinear, it is a LED bar controlled by pixel of 9cmt RGBW, 14w with SPI interface control, connector for input and for output is provided on the luminaire, magnetical system is available for easy mounting on the installation. Each module it work with Scramble PWM, grey scale curve, hi frequency per second available up to 60fps.

Standard Size available:

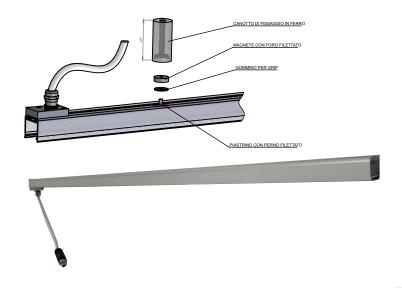
960 mm

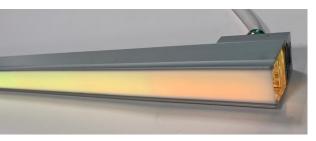
1440 mm

1920mm

Aluminium Body anodisation color silver, black, red, deep silver, blue.

Painted on request.











Electrical:

Power supply 18-26vdc

Power consumption 15W

Data in and Clock in signal 5vdc protected against miswiring

Data out and Clock out regenerated 5vdc

Connector ip67 max current 6A.

Cable output side or bottom available

Plastic cover satinated or Resin Doming

i lastic cover satinated of Nesin Doming

Ambient temperature range -10/85 degree Thermal protection provided.

