Specifications FOX II T/R DP 4K

TRUE 4K specification

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 30 Hz	4:4:4	8 bit
3840 x 2160 at 30 Hz		
4096 x 2160 at 120 Hz		
3840×2160 at 120 Hz		
4096 x 2160 at 60 Hz		10 bit
3840 x 2160 at 60 Hz		

Frame rate¹ 24, 25, 30, 50, 60, or 120 fps

Chroma sampling¹ 4:4:4

Color bit depth¹...... 8 or 10 bits per color

Signal type...... HDMI 1.4, DisplayPort 1.1a, HDCP 1.3

Max. video data rate 9.85 Gbps

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at **www.extron.com/8Kdatarate** to determine video parameters supported by this data rate.

NOTE: This product requires two parallel connections to achieve 4K at 50 or 60 fps at 8 bits per color.

NOTE: This product requires four parallel connections to achieve 4K at 50 or 60 fps at 10 bits per color.

NOTE: This product requires four parallel connections to achieve 4K at 120 fps at 8 bits per color.

NOTE: The analog audio signal(s) is (are) digitized in the transmitter, sent through the fiber cable, and converted back to analog audio in the receiver.

NOTE: These transceivers are class 1 laser products. They meet the safety regulations of IEC-60825.

Optical fiber interconnection between transmitter and receiver

Connectors 2 LC connectors

Operating distance

1 km (3280') with 50 µm OM2 multimode (MM) cables

 $2~\mbox{km}$ (6561') with 50 $\mbox{\mu m}$ OM3/OM4 2000/4700 MHz bandwidth laser optimized

multimode cables

Specifications • FOX II T/R DP 4K (Continued)

NOTE: Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Transmission power

Singlemode -5 dBm, typical Multimode -5 dBm, typical

Maximum receiver sensitivity

Singlemode -18 dBm, typical Multimode -12 dBm, typical

Optical loss budget

Video

Maximum data rate...... Up to 9.85 Gbps

Maximum pixel clock...... 300 MHz

1920x1200, including 480p, 576p, 720p, 1080i @ 25/30 Hz, 1080p @ 50/60/120

Hz

Data (EDID) tables.

Standards DisplayPort 1.1a, HDMI 1.4, HDCP 1.3

Video input and loop through — transmitters

Number/signal type...... 1 DisplayPort input

1 DisplayPort loop-through

Connectors 1 female DisplayPort input

1 female DisplayPort loop-through

Video output - receiver

Number/signal type...... 1 DisplayPort

Video delay <1 frame

Audio

Gain

Range Adjustable, -18 dB to +13 dB

Default

Captive screw connector... Balanced output: 0 dB; unbalanced output: -6 dB

S/N.....>90 dB at maximum output (unweighted)

Specifications • FOX II T/R DP 4K (Continued)

Audio input - transmitter

Number/signal type...... 1 digital audio, de-embedded from DisplayPort or

2 inputs:

1 balanced stereo

1 unbalanced stereo or 2 unbalanced mono

(1) 3.5 mm stereo jack

(1) 3.5 mm captive screw connector, 5 pole

Maximum level +21.0 dBu, balanced at 1% THD+N (5-pole); +15.0 dBV, unbalanced (3.5 mm

stereo)

Source formats 2 CH LPCM

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output - receiver

Number/signal type...... 1 digital audio, embedded with DisplayPort output

2 buffered outputs:

1 balanced stereo; 1 unbalanced stereo or 2 unbalanced mono

(1) 3.5 mm stereo jack

(1) 3.5 mm captive screw connector, 5 pole

Nominal level...... +4 dBu (1.23 Vrms), -10 dBV (316 mVrms)

Audio return input — receivers

Number/signal type...... 1 stereo/mono, balanced

Connectors......(1) 3.5 mm captive screw connector, 5 pole

Maximum level (Hi-Z)..... +12.0 dBu, balanced at 1% THD+N

Audio return output - transmitter

Number/signal type...... 1 stereo/mono, balanced

Nominal level..... +4 dBu (1.23 Vrms)

Maximum level (Hi-Z)..... +12.0 dBu, balanced at 1% THD+N

Control/remote

Serial control ports on each unit (transmitter and receiver)

1 RS-232, 3.5 mm captive screw connector, 5-pole (3 pins are used), rear panel

Baud rate and protocol

Serial control pin configuration Captive screw: 1 = Tx, 2 = Rx, 3 = GND

Program control...... Extron control/configuration program for Windows®

Extron Simple Instruction Set (SIS™)

IR control port...... (1) 3.5 mm captive screw connector, 5 pole (connector is shared with RS-232

pass thru) TTL level (0 to 5V) modulated infrared control from 30kHz to 40 kHz

IR control pin configuration 3 = GND, 4 = IR Tx, 5 = IR Rx

Specifications • FOX II T/R DP 4K (Continued)

General

Power supply...... Internal

Input: 100-240 VAC, 50-60 Hz

Power consumption

Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling Fan, front to back

Thermal dissipation

Mounting

Rack mount...... Yes, with optional rack shelf

Furniture mount Yes, with optional under desk mounting kit

Enclosure type Metal

Enclosure dimensions

(4.2 cm H x 22.1 cm W x 21.6 cm D)

(Depth excludes connectors.)

(4.2 cm H x 22.1 cm W x 21.6 cm D)

(Depth excludes connectors.)

Product weight

Regulatory compliance...... CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI

Complies with the appropriate requirements of RoHS, WEEE.

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

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