

Specifications

DTP2 T 203

TRUE 4K specification

| Max. 4K Capabilities | | |
|-----------------------------|-----------------|--------------------------|
| Resolution and Refresh Rate | Chroma Sampling | Max. Bit Depth per Color |
| 4096 x 2160 at 60 Hz | 4:4:4 | 8 bit |
| 3840 x 2160 at 60 Hz | | |
| 4096 x 2160 at 30 Hz | | 12 bit |
| 3840 x 2160 at 30 Hz | | |
| 4096 x 2160 at 60 Hz | 4:2:0 | 12 bit |
| 3840 x 2160 at 60 Hz | | |

| | |
|---|--------------------------------|
| Frame rate ¹ | 24, 25, 30, 50, 60, or 120 fps |
| Chroma sampling ¹ | 4:4:4, 4:2:2, or 4:2:0 |
| Color bit depth ¹ | 8, 10, or 12 bits per color |
| Signal type ¹ | HDMI 2.0b, HDCP 2.3 |
| Max. video data rate ¹ | 18 Gbps (6 Gbps per color) |

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

Video

HDMI input

| | |
|---------------------------|--|
| Maximum data rate | 18 Gbps (6 Gbps per color) |
| Maximum pixel clock | 600 MHz |
| Resolution range | Up to 2560x1600 @ 60 Hz or UHD (3840x2160) @ 60 Hz, with 4:4:4 chroma subsampling. |
| Color bit depth | 8, 10, 12 bits — subject to the maximum data rate limit |
| Formats | RGB and YUV digital video |
| Standards | DVI 1.0; HDMI 1.4, 2.0b; HDCP 1.4, 2.3; CEA-861E |

DisplayPort input

| | |
|---------------------------|---|
| Maximum data rate | 17.28 Gbps (4.32 Gbps per channel) |
| Maximum pixel clock | 600 MHz |
| Resolution range | Up to 3840x2160 @ 60Hz or 3840x2160 @ 60 Hz with 4:4:4 chroma subsampling |
| Color bit depth | 8, 10, 12 bits — subject to the maximum data rate limit |
| Formats | RGB and YUV digital video |
| Standards | DisplayPort 1.2 |

Video input — HDMI

| | |
|----------------------------|---|
| Number/signal type | 2 single-link HDMI (or DVI-D) |
| Connectors | 2 female HDMI type A |
| Horizontal frequency | 15 kHz to 100 kHz |
| Vertical frequency | 24 Hz to 120 Hz (for resolutions up to 18 Gbps) |

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Video input – DisplayPort

| | |
|---------------------------|---|
| Number/signal type..... | 1 DisplayPort |
| Connectors..... | 1 female 20-pin DisplayPort |
| Input cable length..... | Up to 6 feet |
| Horizontal frequency..... | 15 kHz to 100 kHz |
| Vertical frequency..... | 24 Hz to 120 Hz (for resolutions up to 18 Gbps) |

Interconnection between transmitter and receiver

| | |
|-----------------------------------|--|
| Connectors..... | 1 female RJ-45 jack |
| Termination standards..... | TIA/EIA T568B |
| Signal transmission distance..... | Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 STP cable |
| Cable requirements..... | Solid conductor, 24 AWG or better |
| Cable recommendations..... | 400 MHz bandwidth STP cable |

NOTE: Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.

Audio

| | |
|--------------------------------|--|
| Gain..... | Unbalanced output: 0 dB; balanced output +6 dB |
| Frequency response..... | 20 Hz to 20 kHz, ± 0.5 dB |
| THD + Noise..... | 0.03% @ 20 Hz to 20 kHz at maximum output |
| S/N..... | >90 dB at maximum output (15 dBu), balanced (unweighted) |
| Stereo channel separation..... | >80 dB @ 1 kHz to 20 kHz |

Analog audio input

| | |
|-------------------------|---|
| Number/signal type..... | 1 stereo, unbalanced 3 digital embedded audio on HDMI and DP |
|-------------------------|---|

NOTE: Analog audio can be configured for embedding onto the digital video signal at the Transmitter. Embedded digital audio can be (configured) de-embedded from the digital video signal at the Receiver end.

| | |
|--|---|
| Embedded digital audio source formats..... | 2-ch PCM, PCM, Dolby Digital 2/0, Dolby Digital 2/0 Surround, Dolby Digital 5.1, Dolby Digital EX, DTS Digital Surround 5.1, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1 |
| Connectors..... | (1) 3.5 mm stereo jack, 2 channel; tip (L); ring (R); sleeve (GND) |
| Impedance..... | >10k ohms, DC coupled |
| Nominal level..... | -10 dBV (316 mVrms) |
| Maximum level..... | +7 dBV, unbalanced |

Control/remote – external device (pass-through, unidirectional or bidirectional)

| | |
|-----------------------------|--|
| Serial control port..... | 1 RS-232, 3.5 mm captive screw connector, 3 pole, rear panel |
| Pin configuration..... | Pin 1 = Tx, Pin 2 = Rx, Pin 3 = GND |
| Baud rate and protocol..... | 9600 baud rate, 8 data bits, 1 stop bit, no parity |
| USB control port..... | 1 female mini USB, type B, front panel |
| USB standards..... | USB 2.0, high speed |
| Ethernet data rate..... | 10/100Base-T, half/full duplex, with autodetect |
| Ethernet protocol..... | ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet, SMTP |
| Program control..... | Extron's Simple Instruction Set (SIS™), Extron Product Configuration Software (PCS), Microsoft Internet Explorer, Telnet |
| Contact closure..... | (1) 3.5 mm captive screw connector, 4 pole |
| Pin configuration..... | Pin 1 = input 1 contact, Pin 2 = input 2 contact, Pin 3 = input 3 contact, Pin 4 = GND |

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| | |
|--|---|
| Tally output | (1) 3.5 mm captive screw connector, 4 pole |
| Pin configuration..... | Pin 1 = input 1 tally, Pin 2 = input 2 tally, Pin 3 = input 3 tally, Pin 4 = +5 V |
| Over DTP/HDBT RS-232/ IR pass through | Pin 1 = RS-232 Tx, Pin 2 = RS-232 Rx, Pin 3 = GND, Pin 4 = IR Tx, Pin 5 = IR Rx |

General

| | |
|-------------------------------|---|
| Power supply | External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 2.0 A, 24 watts |
| Power consumption | |
| Device | 18.6 watts |
| Device and power supply | 20.5 watts |

NOTE: Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver or transmitter on the other end of the twisted pair cable.

| | |
|-------------------------------|---|
| Temperature/humidity | Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing |
| Cooling | Convection, vents on top side and sides |
| Thermal dissipation | |
| Device | 62.5 BTU/hr |
| Device and power supply | 68.8 BTU/hr |
| Enclosure type | Metal |
| Enclosure dimensions | 1.0" H x 8.75" W x 6.0" D (1" high, half rack wide) 2.5 cm H x 22.2 cm W x 15.2 cm D (depth excludes connectors) |
| Product weight | 1.1 lbs (0.5 kg) |
| Regulatory compliance..... | CE, c-UL, UL, C-tick, FCC Class A**, ICES, VCCI, KCC UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release, excluding the power supply |
| Product warranty | 3 years parts and labor |

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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