

## AUDIO PROCESSING

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- Channel Count: **Available from 8 to 32 outputs**
- Future Option (2026): **Up to 64 channels (build-to-order)**
- Architecture: **Software-based, 64-bit floating point processing**
- Sample Rate: **Up to 192kHz (channel dependent)**

## IMMERSIVE AUDIO FORMATS

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- Decoded Formats: **Dolby Atmos, DTS:X Pro, Auro-3D, IMAX Enhanced**
- Upmixers: **Dolby Surround, DTS Neural:X, Auro-Matic**
- Flexibility: **Full-format decoding with channel-to-speaker assignment**

## HDMI CONNECTIVITY

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- Inputs / Outputs: **4x HDMI Inputs, 2x HDMI Outputs**
- Version: **HDMI 2.1 with HDCP 2.3**
- Max bandwidth: **40 Gbps on all inputs and outputs**
- 8K Support: **Up to 8K60 (4:2:0 chroma only)**
- 4K Support: **Up to 4K120 (with full 4:4:4 chroma)**
- Chroma Subsampling: **4:4:4, 4:2:2, 4:2:0 (format-dependent)**
- HDR Support: **HDR10, HDR10+, Dolby Vision, HLG**
- Gaming Features: **VRR, FRL and ALLM**
- Other Features: **On-screen display (OSD), full pass-through**

## AUDIO INPUTS

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- Dante: **Up to 32 input channels**
- Ravenna / AES67: **Up to 32 input channels (48kHz)**
- AES/EBU: **Up to 32 inputs via 2x DB25**
- S/PDIF: **1x coaxial + 1x optical**
- 3D Microphone: **1x Ethercon input (provides power)**

- Independence: **All inputs are independent**
- Future AoIP Input Capacity (2026): **Up to 64 inputs (build-to-order)**

## AUDIO OUTPUTS

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- Dante: **Up to 32 output channels**
- Ravenna / AES67: **Up to 32 output channels (48kHz)**
- AES/EBU: **Up to 32 outputs via 2x DB25**
- Analog: **8x balanced outputs via 1x DB25**
- Analog Output Level: **+18 dBu max**
- THD+N (analog output): **110dB (1kHz 0dBFS, 20kHz BW)**
- Dynamic Range (analog output): **115dB A-weighted (ref +18dBu)**
- Channel Assignment: **Any output channel to any physical audio output**
- Output Types: **Analog, digital or AoIP**

## NETWORK ARCHITECTURE & AOIP

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- AoIP Support: **Native Dante (hardware) and Ravenna/AES6 (software)**
- Compatibility with Dolby media servers: **via AES67**
- Ethernet Ports: **3x Gigabit ports: 1x RJ45, 2x SFP cages**
- SPF module: **1x RJ45 provided**
- Networking Modes: **Integrated switch, isolated, or redundant paths**
- AoIP Simplification: **DirectLink supported with Amplitude16**

## CONTROL & INTEGRATION

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- Full UI Access: **macOS/Windows app or Web UI**
- Mobile Remote Control: **iOS & Android app**
- Control Drivers: **Crestron, Control4, Savant, RTI, AMX, Nice, AVA**
- Physical Control: **IR Input (Jack 3,5", IR receiver included), RS-232**
- Triggers: **1x input, 4x programmable outputs**
- IR Remote Control: **Optional**
- Remote Management: **Partner access through via [my.trinnov.audio](https://my.trinnov.audio)**

- Front panel: **5-inch touchscreen**
- Power Modes: **Standby & fast boot (firmware-ready)**

## DIGITAL ACOUSTIC OPTIMIZATION

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- Trinnov Technologies: **Trinnov Optimizer, WaveForming & Remapping**
- Calibration Workflow: **Step-by-step guided setup**
- 3D Mic Integration: **Automatic compensation file upload**

## AUDIO STREAMING

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- Roon: **Certified Roon Ready endpoint (soon)**
- Audirvāna: **Certified plāys with audirvāna (soon)**
- UPnP: **Flac, WAV, MP3, ogg**

## POWER & THERMAL

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- Power Supply: **100-240V auto-switching**
- Max Consumption: **140W (0,5W idle)**
- Cooling: **Temperature-controlled exhaust fans**
- Heat Output: **480 BTU/hr (max load)**
- Mains fuse: **2x T800mA**

## CHASSIS & DIMENSIONS

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- Form Factor: **2RU rack-mountable**
- Net Weight: **8.6kg / 19 lbs**
- Front Plate: **Smoked-glass touchscreen in brushed aluminum**
- Design: **Minimalist, with removable ears/feet**
- W x H x D (no ears/feet): **438 x 88 x 371 mm / 17.24 x 3.46 x 14.61 in**
- W x H x D (with ears/feet): **482 x 97 x 371 mm / 18.98 x 3.82 x 14.61 in**