

FiberPlex™ Dante® Audio/Video over IP Gateway

Model FPX6000 Series



The combination of Dante AV and IP offers the power, flexibility and reliability needed for next generation commercial AV networks. Easily route and sync individual audio and video channels using industry leading Dante protocol, eliminating the use of legacy breakouts or costly matrix switches.

Perfect Audio and Video Synchronization

Utilizing a **Single Network Clock**, Independent routing of Audio and Video anywhere on the network while maintaining perfect synchronization.

Trusted Dante Audio

Dante protocol timing and synchronization significantly reduces harmonic distortion and phasing caused by jitter, wander and delay typically found on standard Ethernet networks.

Supports Mixed Networks

Dante ensures that your time-sensitive audio/video streams always get enough reserved bandwidth even while on a standard Ethernet network.

Expanded Coverage

Break away from legacy point-to-point topology. With unicast and multicast, command, control and reliability for distributed audio video systems is made simple tapping into already existing Dante-enabled Ethernet networks.

Interoperability

- Instantly connect to any Dante-enabled products currently available today
- HDCP2.3 over IP compliant

Designed and Manufactured in the USA

Top notch quality and reliability with local support

Available Mounting Options

- VESA Mount



- Dual Rack-Mount



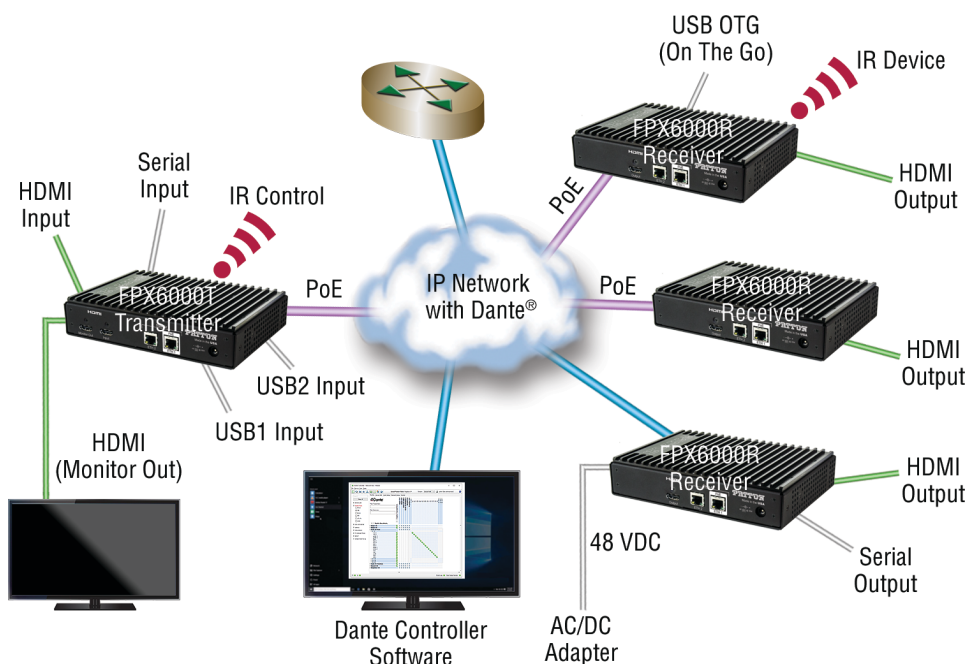
Patton's FPX6000 series enables eight HD audio channels and one 4K60 4:4:4 HDCP2.3 encrypted video channel to be independently transported on an existing gigabit Ethernet network backbone without suffering the performance issues and management difficulties associated with audio and video over IP.

Dante's sub-microsecond synchronization of audio and video eliminates alignment problems by having a **single network clock** for the entire system in sync—regardless of the number of endpoints—transporting audio and video with low deterministic latency. Easily route and sync individual audio and video channels using industry leading Dante protocol, eliminating the use of legacy breakouts or costly matrix switches.

The FPX6000 includes HDMI for HD Audio/Video, IR for control, 2 x gigabit Ethernet ports for networking and powering the device, 2 x USB 2.0, and 1 x USB OTG for KVM over IP applications and an RS422/VISCA RJ45 interface for serial control of devices such as PTZ cameras and lights.

Best of all, the FPX6000 and DanteAV is 100% interoperable with your already existing Dante Audio solutions and products. Using the familiar Dante Controller routing, controlling and monitoring your audio and video traffic and endpoints as simple as clicking a button.

Visit www.patton.com to view our huge selection of network connectivity products and more.



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Specifications

Audio

- Up to eight channels at 44.1, 48, 88.2 or 96 kHz. HDCP sourced audio channels limited to 48 kHz
- High-quality, low jitter with on-board clock generator for audio
- Up to 8192 samples (170 ms @ 48 kHz) audio buffering per channel (receiver only)
- Built-in 8-channel asynchronous sample rate converter (in receiver only)
- Bit depths: 24, 16, and 32 bits per audio sample
- Sample rate pull-up/down (+4.1667, +0.1, -0.1, and -4.0%)
- Acoustic Noise Typical: 31.2dBA

Network

- 2 x 10/100/1000BaseTX
 - Dante Network Port
 - Switch or Daisy-chain
- PoE (PD-powered device)
- Hardware time-stamping, supporting sample-accurate playback
- Audio Flows In/Out: Up to 8x8 (unicast or multicast)

- Video Flows In/Out: 1x1 (unicast or multicast)

Video

- 1 HDMI 2.0/1.4b input (T model) or output (R model)
- Latency: 8-ms delay from HDMI input to HDMI output for a 60-Hz video
- Built-in HDCP encryption/decryption for video
- HDCP 2.2 input/output, HDCP 2.3 over network
- 800 Mbps recommended maximum bit rate
- Accepts any bit stream from external codec
- Video transport formats: Dante Video over IP
- Up to 4K60 input/output
- HDR support
- HDMI monitor output loop-through (T model)
- JPEG2000

Control Interfaces (Peripherals)

- 2 x USB 2.0 (HID) Type A for keyboard and mouse
- USB On The Go (OTG) for keyboard and mouse
- RS422/VISCA for PTZ camera input control (RJ45)

- IR 3mm infrared control over IP

Panel Status LEDs

- Power
- CODEC
- Dante software/system
- Clock synchronization (master, slave, progress)
- Error
- HDCP status

Software

- Full Dante API support
- Support for HDMI management
- Support for fully validated HDCP management
- EDID management
- Serial/IR/USB HID/CEC over IP support

Physical

- 9.15L x 5.72D x 1.75H inch (23.34L x 14.53D x 4.45 H cm)
- Weight: 2.85 lb (1.29 kg)

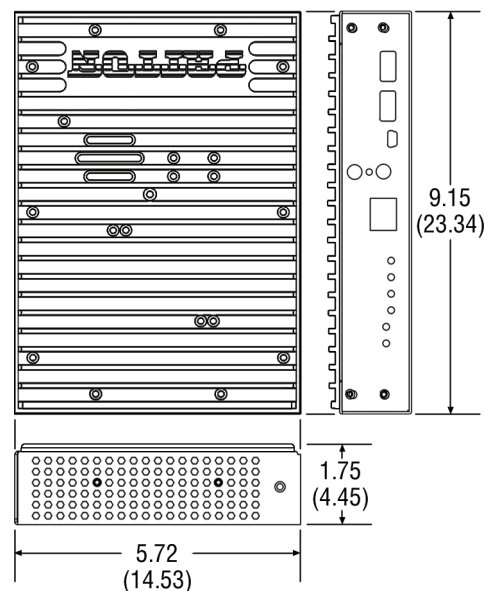
Power

- 48 VDC (0.75A) input
- 802.3bt (60–90W)

Operational Temperature

- 32–104°F (0–40°C)

FPX6000 Dimensions



Units: inches (cm)

* Specifications subject to change without notice.



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