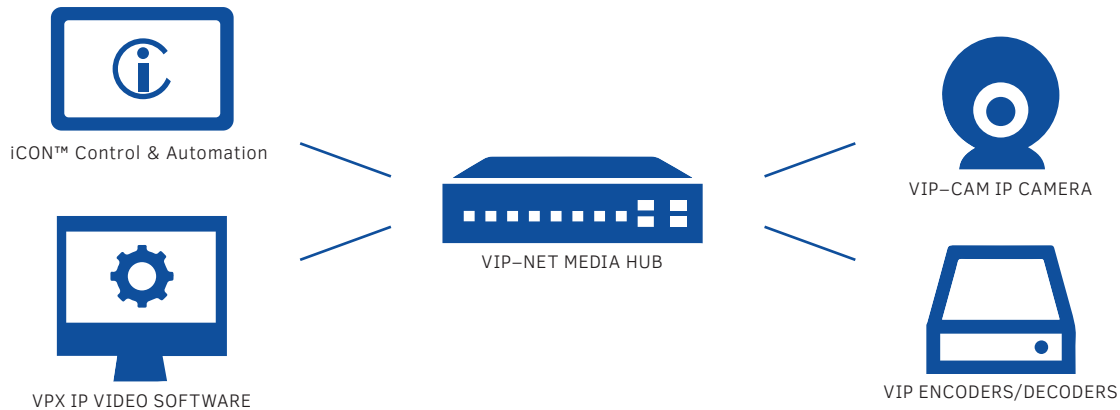


AV OVER IP SOLUTIONS GUIDE

OVERVIEW

PureLink's VIP line of robust **A/V over IP solutions** provide scalable, multi-source audio and video distribution over the network, combining proven hardware components with a server-based software application designed to simplify setup, configuration, and management of VIP systems.



The combination of hardware options, such as the **VIP-T400/400/T300** encoders/decoders and purpose-built PoE CAT/Fiber Media Hubs, along with the revolutionary **VPX IP Video Management Software**, delivers a comprehensive and easy-to-manage AV over IP distribution system. The **iCON Control System** simplifies the implementation of video, audio, IR, and RS-232 matrixing and control, ensuring seamless management of your space.

VPX KEY FEATURES:

- Third party control automation API
- Advanced video wall processing
- Preset creation & scheduling
- Device management
- Network discovery
- Simplified setup

COMMON APPLICATIONS

- Retail
- Conferencing
- Broadcast
- Digital Signage
- Security & Surveillance
- Entertainment Venues
- Restaurants & Hospitality
- House of Worship
- E-sports

ENCODERS / DECODERS

VIP-T450 E / D



VIP-T450-E

- 4K60 4:4:4 HDR
- Dante
- Ultra-low latency (<17ms)
- Data rate 300 Mbps typical; 50-850 Mbps range, variable
- Fiber or CAT transport – 1G port
- Extend signals up to 120 meters over CAT6, 240 meters using a network switch, and up to 2km with SFP fiber single mode
- HDCP 2.2 compliant
- USB 1.1 and 2.0 including USB camera

4K60 HDMI & USB / KM CAT and Fiber – AV Over IP Distribution System with Dante- TAA



VIP-T450-D

- Comprehensive diagnostics via API - device discovery, signal data, and EDID
- Instant switching (same resolutions)
- Built-in video wall processing (up to 8x8)
- Built-in scaler on the receiver (decoder)
- Multiple control interfaces - built-in web interface, front panel buttons, VPX Management Software, QSC modules, and 3rd party control development via API
- Image rotation; 90, 180 degrees
- IR and RS232 extension
- TCP/IP to RS232



VIP-T400 E / D

4K60 HDMI & USB / KM CAT and Fiber – AV over IP Distribution System



VIP-T400-E

- 4K60 4:4:4 HDR
- Ultra-low latency (<17ms)
- Data rate 300 Mbps typical; 50-850 Mbps range, variable
- Fiber or CAT transport – 1G port
- Extend signals up to 120 meters over CAT6, 300 meters using a network switch, and up to 2km with SFP fiber single mode
- HDCP 2.2 compliant
- USB 1.1 and 2.0 including USB camera
- Comprehensive diagnostics via API – device discovery, signal data, and EDID



VIP-T400-D

- Instant switching (same resolutions)
- Multiple control interfaces – built-in web interface, front panel buttons, VPX Management Software, QSC modules, and 3rd party control development via API
- Built-in video wall processing (up to 8x8)
- Built-in scaler on the receiver (decoder)
- Image rotation; 90, 180 degrees
- IR and RS232 extension
- TCP / IP to RS232
- HDMI loop-out on TX (encoder)



ENCODERS / DECODERS

VIP-T400-E-WP

4K60 Wallplate Encoder with USB 2.0 and Audio Insert / Extract



- Compatible with all VIP-T400 devices
- PoE 802.3af powered
- HDMI 2.0 4K60

- HDR10 / 10+
- USB 2.0
- <17mS latency
- Audio Insert / Extract



VIP-400 E / D

4K60 HDMI & USB / KM CAT and Fiber – AV over IP Distribution System



VIP-400-E



VIP-400-D

- 4K60 4:4:4 HDR
- Ultra-low latency (<17ms)
- Data rate 300 Mbps typical; 50-850 Mbps range, variable
- Fiber or CAT transport – 1G port
- Extend signals up to 120 meters over CAT6, 300 meters using a network switch, and up to 2km with SFP fiber single mode
- HDCP 2.2 compliant
- USB 1.1 and 2.0 including USB camera
- Comprehensive diagnostics via API – device discovery, signal data, and EDID

- Instant switching (same resolutions)
- Multiple control interfaces – built-in web interface, VPX Management Software, QSC modules, and 3rd party control development via API
- Built-in video wall processing (up to 8x8)
- Built-in scaler on the receiver (decoder)
- Image rotation; 90, 180 degrees
- IR and RS232 extension
- TCP / IP to RS232
- HDMI loop-out on TX (encoder)

ENCODERS / DECODERS

VIP-T300 E / D



VIP-T300 E

- Ultra HD / 4K@30Hz (4:4:4), 4K@60Hz (4:2:0)
- Ultra-low latency (<17ms)
- HDCP 2.2 compliant
- Video wall processing (up to 8x8 configuration) and output scaler
- PoE 802.3af compliant
- Fiber SFP slot for optional SFP modules
- USB 2.0 Keyboard / Mouse Extension
- Extend signals up to 300 m. using network switch

4K HDMI & USB / KM over IP Distribution System



VIP-T300 D

- Comprehensive diagnostics via API – device discovery, signal data, and EDID
- Control via web interface, front panel, IR, VPX Management Software, and third party API
- Bi-directional RS-232 and IR Remote Control
- Layered switching of audio, video, USB, RS-232 and IR
- HDMI loop-out on TX (encoder)
- Dolby, DTS, and LPCM audio
- Rack mount option available



VIP-200-II E / D



VIP-200 II E

- Full HD / 1080p@60Hz
- HDCP 1.3 compliant
- Video wall processing (up to 8x8 configuration)
- Built-in scaler (Rx) – pass through or lock output resolutions
- RS-232 extension / steerable distribution
- USB 2.0 Keyboard / Mouse Extension
- Audio insertion and extraction

HDMI & USB / KM over IP Distribution System



VIP-200 II D

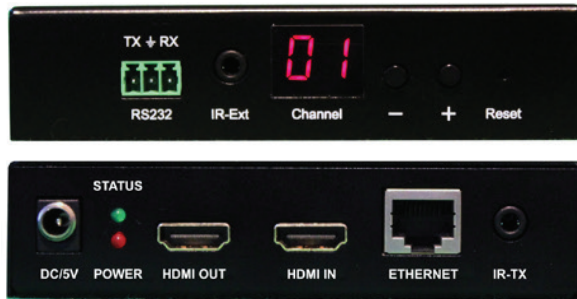
- Bi-directional RS-232 and IR control
- Input selection via remote control, front panel, VPX, or third party control system
- Layered switching of audio, video, USB, RS-232, and IR
- Comprehensive diagnostics via API – device discovery, signal data, and EDID
- Loop-out on transmitter (encoder)
- Point-to-Point, Distribution, Switching, and Matrix systems
- Rack mount option available



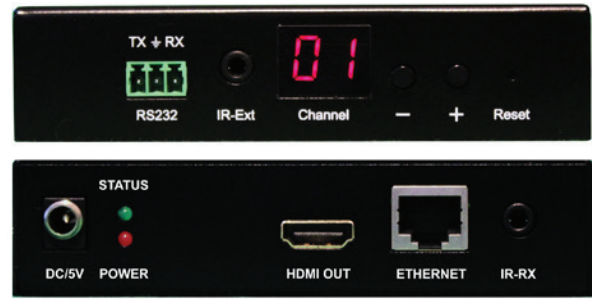
ENCODERS / DECODERS

VIP-100-II E / D

HDMI over IP Distribution System w / PoE



VIP-100-II-E



VIP-100-II-D

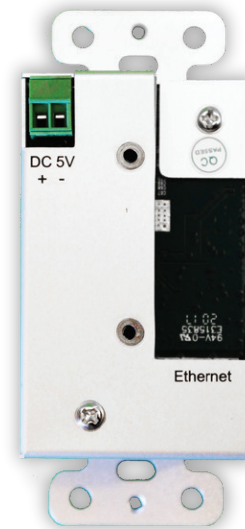
- Full HD / 1080p@60Hz
- HDCP 1.3 compliant
- LED channel display
- Input selection via remote control
- Point-to-Point, Distribution, Switching, and Matrix Systems
- PoE 802.3af
- RS-232 & IR extension / distribution
- HDMI loop-out on transmitter encoder
- H.264 codec – low bandwidth (25Mbps max)

VIP-101-E-WP

HDMI over IP Wall Plate Transmitter w / PoE



FRONT



BACK

- Full HD / 1080p@60Hz
- HDCP 1.3 compliant
- Point-to-Point, Distribution, Switching, and Matrix Systems
- PoE 802.3af
- Compatible with VIP-100 II System
- Decora 1-Gang Wall Plate
- H.264 codec – low bandwidth (25Mbps max)

VIP-STREAM-200

HDMI Streaming Encoder



PureLink's **VIP-STREAM-200** streaming encoder provides simple to use and best in class 1080P60 encoding and the only streaming encoder to provide multiple output formats, allowing you to stream to multiple platforms simultaneously. Connect with countless audience through FaceBook, YouTube, Twitter, Vimeo, and many more, up to three different platforms at the same time.

The **VIP-STREAM-200** also works flawlessly with software and hardware endpoints such as VLC Player, OBS, and decoding displays such as LG, and others.

- Stream to multiple platforms simultaneously
- YouTube, FaceBook, Twitter, and more
- Compatible with displays with streaming input
- Easy one time setup
- Simple front panel controls and diagnostics
- Stream any HDMI source anywhere: local or worldwide

VPX IP VIDEO MANAGEMENT SOFTWARE



The **VPX IP Video Management Software** offers advanced system tools that simplify setup and operation including automatic discovery of VIP-200 / T300 / 400 / T400 transmitter and receiver modules, preset and automation schedule creation, external control, API, detailed diagnostic reporting, and more.

- **Device Discovery** – Detects all available transmitters and receivers
- **Device Mapping** – Automatically build I / O map or manually create/edit
- **Presets** – Create / preview up to 16 presets and automate execution schedules
- **Browser Interface** – Easy access through options such as Wi-Fi tablets
- **Advanced Diagnostics** – Monitor entire system with real-time visual feedback

VPX IP VIDEO MANAGEMENT SOFTWARE FEATURES

FEATURES

- | | |
|--|--|
| ■ Windows Server Program | ■ Third Party Control via HTTP API |
| ■ Browser-based UI | ■ VIP-200 Support with video wall / scaling |
| ■ Auto Discovery | ■ VIP-T300 Support with video wall / scaling |
| ■ Manual Configuration | ■ VIP-400 Support with video wall / scaling |
| ■ Dynamic Diagnostics | ■ VIP-T400 Support with video wall / scaling |
| ■ Automated Presets | ■ Future VIP Modules |
| ■ Preset Preview | ■ Up to 32x32 Matrix |
| ■ Event Log with Date / Keyword Filter | ■ WallMaster™ |

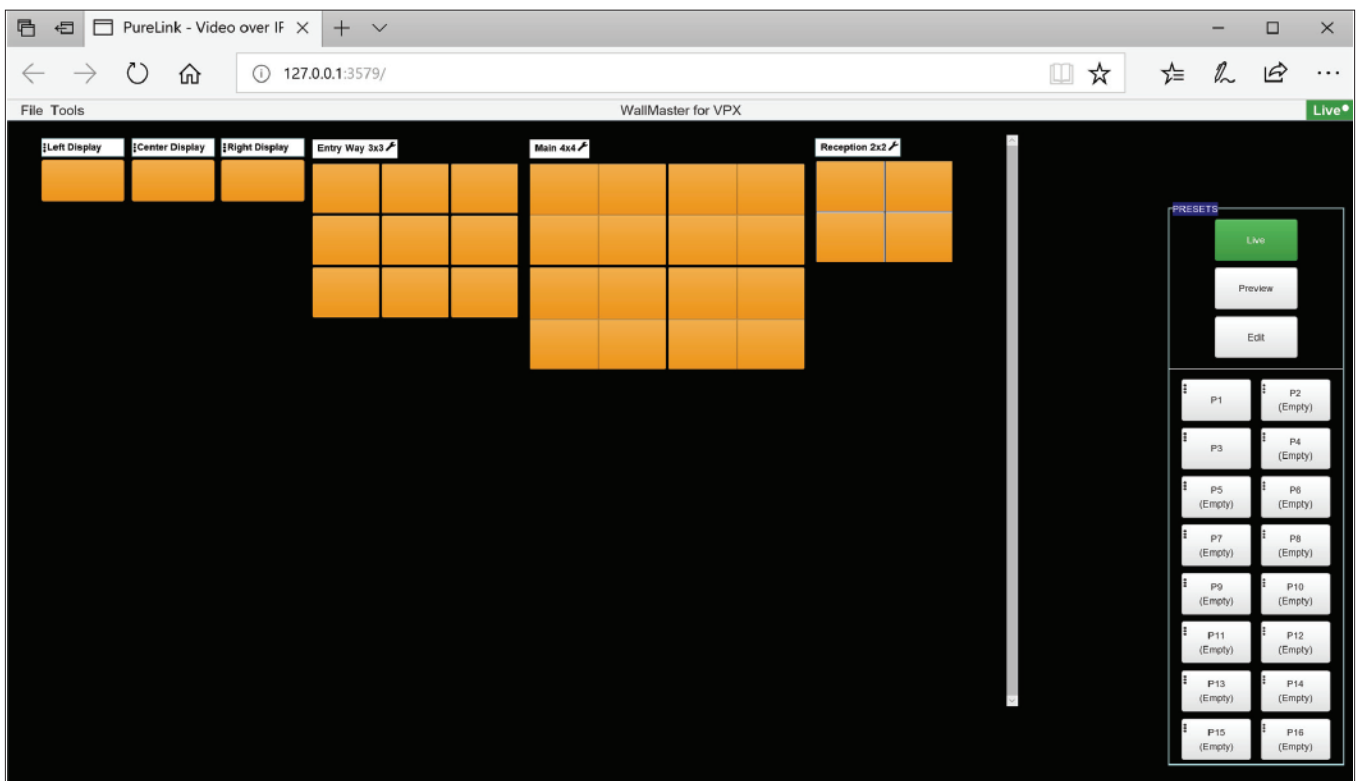
VPX WALLMASTER™



The **VPX WallMaster™** Plug-in integrates advanced video wall processing capabilities to the VPX IP Management Software package.

VIP WallMaster™ allows users to:

- Easily create multiple video wall arrays and display zone layouts
- Apply and re-configure layouts and sources on-demand
- Use VPX Preset Scheduler to call layout and input changes
- Call presets through API



VPX COMMANDER

VPX IP Video Management Hardware Client

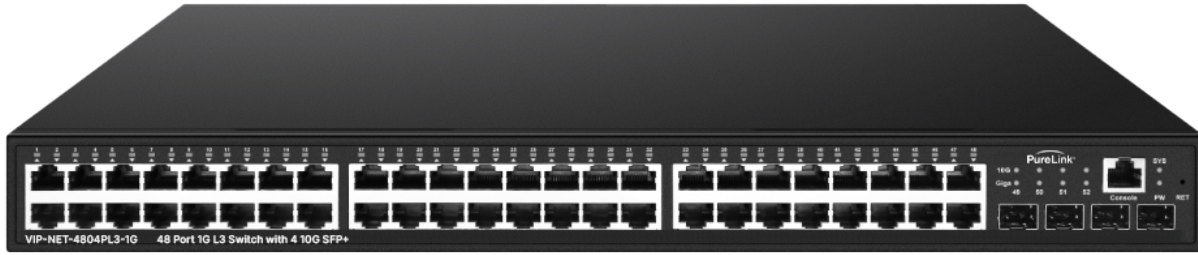


- Auto-run all versions of VPX IP Video Management Software
- Fast and simple system discovery and setup
- Intuitive system operation
- Comprehensive dynamic diagnostic reporting
- Access user interface wirelessly via iOS, Android, Mac, and Windows devices
- 24 / 7 / 365 operation
- 1U rack-mountable design

NETWORK SWITCHERS

VIP-NET-4804PL3-1G

48 Port 1G L3 Switch with 4 10G SFP+



- Purpose-designed for AV over IP applications; ready for use out of the box
- 48 1G Ports
- 4 10GbE SFP+ interlinks with LACP
- IGMP Snooping v1, v2, v3, querier, filter
- QoS
- Jumbo Frame



VIP-NET-2404PL3-1G

24 Port 1G L3 Switch with 4 10G SFP+



- Purpose-designed for AV over IP applications; ready for use out of the box
- 24 1G Ports
- 4 10GbE SFP+ interlinks with LACP
- IGMP Snooping v1, v2, v3, querier, filter
- QoS
- Jumbo Frame



VIP-NET-M3200

L2+ Modular 1G / 10G / 40G Video over IP Switch with PoE+



- Maximum 32x10G or 24x10G+2x40G
- Port-based IEEE802.1X authentication
- SNMPv1 / v2c / v3 for different levels of network management
- Support LLDP and CDP for network discovery protocols
- Redundant dual AC input power 100V to 240V
- Jumbo Frame



NETWORK SWITCHERS

VIP-NET-SFP+10G-MM-0.3

SFP+ 10G MM Module for SFP+ interlinks
and VIP-NET 10G Media Hubs



- Gigabit Ethernet 1000BASE-SX @1.25G
- Compliant with IEEE802.3z Gigabit Ethernet
- Compliant with Fiber Channel 100-M5-SN-I
- Compliant with INF-8074i SFP MSA
- Hot pluggable

VIP-NET-SFP+10G-SM-10

SFP+ 10G SM Module for VIP 10G Media Hubs



- Gigabit Ethernet 1000BASE-SX @1.25G
- Compliant with IEEE802.3z Gigabit Ethernet
- Compliant with Fiber Channel 100-M5-SN-I
- Compliant with INF-8074i SFP MSA
- Hot pluggable

NETWORK SWITCHERS

VIP-NET-SFP1G-MM-0.55

SFP 1G MM Module for
VIP300H-U / T300H-U & VIP 1G Media Hubs



- Gigabit Ethernet 1000BASE-SX @1.25G
- Compliant with IEEE802.3z Gigabit Ethernet
- Compliant with Fiber Channel 100-M5-SN-I
- Compliant with INF-8074i SFP MSA
- Hot pluggable

VIP-NET-SFP1G-SM-10

SFP 1G SM Module for VIP300H-U/
T300H-U and VIP 1G Media Hubs



- Gigabit Ethernet 1000BASE-SX @1.25G
- Compliant with IEEE802.3z Gigabit Ethernet
- Compliant with Fiber Channel 100-M5-SN-I
- Compliant with INF-8074i SFP MSA
- Hot pluggable

HUDDLE-CAM-400

4K Auto Tracking / Framing Camera,
Soundbar, Microphone Solution



- 4K Auto Framing / Tracking Camera
- PTZ / ePTZ movement and High Quality Optics
- Beamforming / tracking microphone array
- Extension microphone (optional)
- Works with Zoom, Teams, GoToMeeting, and more
- Tracks and frames for single or multiple speakers
- Full function remote control
- HDMI and USB-C video / audio output

CAMERAS / CONTROLLERS

VIP-CAM-200

Pro PTZ PoE Camera with 3G-SDI, HDMI, USB and H.264 / H.265 Streaming Outputs



- NDI HX2 output for easy and reliable distribution of signal
- 20x High Performance Optical Zoom w 16x Digital Zoom (320x total zoom)
- Advanced PTZ (Pan-Tilt-Zoom) function for higher precision and reliability
- HDMI, 3G-SDI, USB 3.0 outputs
- H.264 or H.265 output codec selection
- RTSP, RTMP, RTMPS, ONVIF, TCP output formats
- VISCA PELCO and Infrared remote control (included)

VIP-CAM-100-NDI

3G-SDI IP Camera w / HDMI Output



- NDI HX output for easy and reliable distribution of signal
- 20x High Performance Optical Zoom w 12x Digital Zoom (240x total zoom)
- Advanced PTZ (Pan-Tilt-Zoom) function for higher precision and reliability
- HDMI, 3G-SDI, RTSP and RTMP outputs
- VISCA and PELCO control

VIP-CAM-30-20x

USB 2.0 IP Camera w / HDMI Output



- 20x High Performance Optical Zoom w 8x Digital Zoom (160x total zoom)
- Advanced PTZ (Pan-Tilt-Zoom) function for higher precision and reliability
- USB 2.0, HDMI, RTSP and RTMP outputs
- VISCA, PELCO-D, PELCO-P control via RS232 / 485, http
- Minimum illumination .5 lux color, .1 lux BW
- Shutter speed 1 / 1 to 1 / 10,000
- White balancing
- DNR 2D and 3D
- Infrared remote control
- Smart AE technology (Automatic Exposure)
- Desktop / ceiling / wall mount options
- Create / recall up to 250 PTZ presets with remote control

VIP-CAM-10-10x-USB2

USB 2.0 PTZ 10x Camera



- Full-featured USB 2.0 interface
- 1080p Full HD
- CMOS image sensor for superior low light image quality
- Use with Zoom, Teams, GoToMeeting, and more
- Controlled using VISCA / PELCO via RS-232 or remote control
- H.264 Slice / H.264 SVC encoding
- 10 programmable presets

VIP-CAM-CTRL1

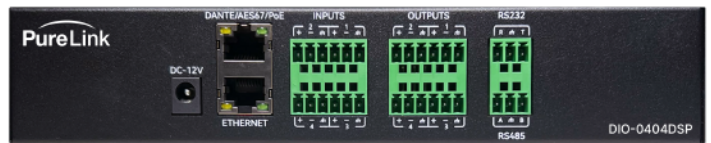
PELCO / VISCA Camera Controller



- Compatible with any PTZ cameras that uses PELCO or VISCA control
- 4D joystick for pan / tilt / zoom / focus control
- High brightness OLED display
- Auto backlight keys
- Shortcut keys customization
- Supports up to 255 cameras using PELCO; 7 cameras using VISCA

DIO-0404DSP

Dante 4 Input 4 Output Interface with DSP



- Four (4) Balanced/Unbalanced analog audio inputs
- Four (4) Balanced/Unbalanced analog audio outputs
- Intuitive DSP Interface
- Compression, Automatic Gain Control
- Parametric EQ, Intelligent Feedback Control
- AutoMixing, Automatic Echo Cancellation
- Matrix switching

DIO-0808DSP

Dante 8 Input 8 Output Interface with DSP



- Eight (8) Balanced/Unbalanced analog audio inputs
- Eight (8) Balanced/Unbalanced analog audio outputs
- Intuitive DSP Interface
- Compression, Automatic Gain Control
- Parametric EQ, Intelligent Feedback Control
- AutoMixing, Automatic Echo Cancellation
- Matrix switching

DIO-1616DSP

Dante 16 Input 16 Output Interface with DSP



- Sixteen (16) Balanced/Unbalanced analog audio inputs
- Sixteen (16) Balanced/Unbalanced analog audio outputs
- Intuitive DSP Interface
- Compression, Automatic Gain Control
- Parametric EQ, Intelligent Feedback Control
- AutoMixing, Automatic Echo Cancellation
- Matrix switching

DIO-0200XLRF

Dante 2 channel in XLR Audio Dongle



- Dante 2 Channel XLR Input
- Perfect for Connecting Devices to a Dante™ Audio Network: Mixers, Processors
- Powered via 802.3af PoE
- Plug and Play
- 24 Bit Depth
- 96 kHz Sample Rate
- Dante, AES67

DIO-0002XLRM

Dante 2 channel out XLR Analog Audio Dongle



- Dante™ 2 Channel XLR Output
- Perfect for Connecting Dante™ Audio to Analog Devices: Mixers, Speakers, Processors
- 802.3af PoE
- Plug and Play
- Automatically detected in Dante Controller
- 24 Bit Depth
- 96 kHz Sample Rate
- Dante, AES67

DIO-0202USB

Dante 2 in / 2 out USB Audio Dongle



- USB 2.0 to Dante™ 2 Channel Input / Output
- Perfect for Connecting Laptop Audio to a Dante™ Network
- Plug and Play
- Powered from USB
- Automatically detected by Operating System as an audio interface
- 24 Bit Depth
- 48 kHz Sample Rate

SERVICE AND SUPPORT

PureLink offers industry-leading support services designed to handle the unique needs of each project. From system design to comprehensive technical support, our dedicated team of Service & Support professionals are trained to provide a consistently superior user experience.

COMPLIMENTARY SYSTEM DESIGN

- Start a new design or upgrade an existing system
- Free system diagram and BOM

DEDICATED TECHNICAL SUPPORT

- Team of technical experts
- Industry's fastest response times
- Gold & Platinum support packages

PURELINK PROFESSIONAL SERVICES

- Pre-configuration services for VIP endpoints
- Warranty repairs and replacements
- Product evaluation program

TRAINING & WEBINARS

- Free online education (tutorials, quick guides, and more)
- Live webinars featuring VIP/VPX CTS certification



View our VIP products here



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