Smart-AVI
SMART AUDIO VIDEO INNOVATION

P2P-KHR310

Point-to-Point Single-Head HDMI CAT5 & Fiber Receiver with USB 2.0 and Audio

Extend, control, and manage your HDMI-based workstation over IP with the P2P-KHR310. Supporting flexible Direct, Matrix, and SaviGate modes, the P2P-KHR310 adapts to your installation needs — from simple point-to-point extensions to full multi-user managed environments — over CAT5 or Fiber.

FEATURES

- Supports HDMI video up to 4K @ 30Hz or 1080p @ 60Hz
- Transparent USB 2.0 extension for peripherals
- Analog audio passthrough
- Selectable Direct, Matrix, and Savigate modes via web interface
- Savigate Gateway support for centralized management (sold separately)
- Up to 100m over CATx / 10km over fiber
- Ultra-low latency JPEG2000 compression
- Plug-and-play installation
- EDID learning and management

IDEAL USE CASES

- AV and IT extension for secure environments
- Digital signage and workspace centralization
- Medical and industrial command centers
- Military and government operations
- Broadcast and production control rooms

HOW IT WORKS

Flexible KVM extension and switching

The P2P-KHR310 can operate in multiple modes depending on your application needs:

Direct Mode

Simple point-to-point extension without configuration
Supports: 1 Transmitter / 1 Receiver

Matrix Mode

OSD-based multi-user KVM switching across a network
Supports: Up to 64 Transmitters / 8 Receivers

SaviGate Mode

Centralized management, access control, and advanced routing when integrated with a SaviGate controller
Supports: Up to 128 Transmitters / 16 Receivers

Modes are easily changed using a simple dropdown menu within the web browser interface of each unit.

COMPATIBLE TRANSMITTERS

Pairs with the following transmitter models for point-to-point operation:

- **P2P-KVT310** - DVI Transmitter via CATx & Fiber
- **P2P-KHT310** - HDMI Transmitter via CATx & Fiber
- **P2P-KDT310** - DisplayPort Transmitter via CATx & Fiber

SPECIFICATIONS

Video OUT	
Format	HDMI 1.4 & HDCP 1.4 Compliant, Video Bandwidth Up to 10.2 Gbps
Video Resolution	Up to 4K @ 30 Hz, 1080p @ 60 Hz
Connector	(1) HDMI (19-Pin female)

System	
Interface	EDID Storage & Emulation
Transmisssion Distance	Up to 100 m; LC Connector Fiber Multimode: Up to 500 m; Fiber Single Mode: Up to 10 km
Compression	Ultra-Low Latency JPEG2000
Management	Selectable Direct, Matrix, SaviGate Gateway support for centralized management (sold separately)

Audio	
Format	PCM 2.0/2.1/5.1/7.1, Dolby Digital 5.1 ch, Dolby Digital Plus, Dolby TrueHD, DTS 5.1 ch
In/Output Interface	3.5 mm Stereo Aux Socket (female)

USB	
Out	USB Type B, USB 2.0, USB 1.1, USB 1.0 compatible
KM	Keyboard & Mouse Emulation

Other	
Power	12 V DC, 3 A (Power Supply Included)
Reliability (MTBF)	135,540 Hours (MIL-HDBK-217F (N2) Parts Count Prediction Calculator)
Environmental Operating Temperature	0°C to 45°C (32°F to 113°F)
Environmental Operating Humidity	10% to 90%, non-condensing
ESD Protection	Protection per IEC 61000-4-2 Standard at ±30 kV Air and ±30 kV Contact
Support Warranty	1-Year
Certification	CE, FCC, RCM, UL
Dimensions	9.5”W x 5.25”D x 1.7”H
Weight	1 lbs 0.45 kg

ORDERIING DETAILS

P2P-KHR310-S	Point-to-point Single-Head HDMI CAT5 & Fiber Receiver with USB 2.0, Audio and Local Loop. [P2P-KHR310, PS5VD3A]

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