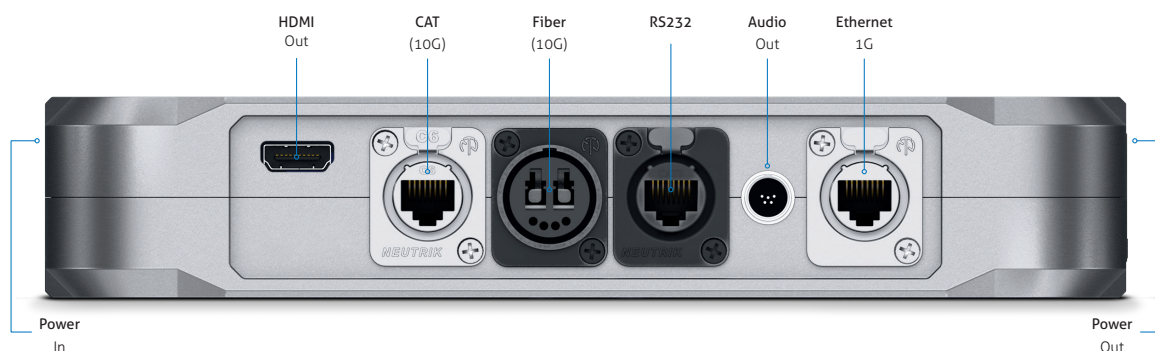


# IPAV-PRO Serie

IPAV2100-RX | SDVoE™ Compliant,  
Rugged AV over IP Receiver

# IPAV Pro Serie



## DESCRIPTION

World's first dual signal transmission SDVoE™ compliant AV over IP receiver - fiber and copper on a single SKU – leveraging full 10GbE switch technology for true professional AV/IT convergence.

Zero frame latency, seamless switching and visually lossless reproduction of source signals up to 4K@60Hz 4:4:4 without artifacts. Uncompressed data transmission up to 10Gbps – Minimal, lossless compression ratio (1.41:1) at higher data rates.

Rugged, CNC-milled aluminium housing for the toughest and most unforgiving environments with automotive standard scratch resistant outer coating and clear port labelling.

## FEATURES AND PERFORMANCE

- Scalable AV distribution only limited by the number of 10GbE ports available
- Mimics all AV layouts: Extender, switcher, splitter, matrix and video wall controller
- Full 4K@60Hz 4:4:4 bandwidth transmission incl. HDR with full HDCP version support
- HDMI 2.0 A/V output
- Designed for 24 / 7 / 365 applications with enhanced moisture and dust ingress rating and fanless heat management
- Seamless switching and visually lossless transmission with zero frame latency
- Three adaptable video switching modes – Genlock, Fast Switch, Genlock Scaling
- Transmission via Cat.6A (100m), Multi-Mode fiber (300m)
- Broadcast quality up and down scaling
- Up to 5x5 video wall processing with comprehensive software management incl. bezel correction
- Balanced audio embedding / de-embedding and PCM down mixing
- Independent switching of video, audio, 1G Ethernet, and control signals
- On board daisy-chainable power supply featuring AC mains power input & output
- Dual truss clamp mounting holes as well as four safety strap holes
- Full set of professional field connectors, fitted to recessed connector panels, separated from the main PCBA for ease of part replacement



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## DETAILED TECHNICAL SPECIFICATION | IPAV2100-RX RECEIVER

Inputs and Outputs	
Input Receiver	1x opticalCON DUO (D-Type Neutrik), 1x etherCON (Cat.6A Neutrik D-Type)
Output Receiver	1x HDMI, 1x Balanced Audio (Mini 5 pin XLR), 1x RS232 (RJ11), 1x etherCON (Cat.6A Neutrik D-Type)



A/V Characteristics	
Standards	HDMI 2.0, HDCP 1.4 / 2.2, HDR 10, HDR 12 and Dolby Vision incl. RGB, YCbCr 4:4:4, CEC, EDID
Bandwidth	18Gbps (6 Gbps / color) / 594 MHz
Resolution	Up to 4K / UltraHD / 2160p (4096x2160) @60Hz, 4:4:4 as well as HDR up to 12-bit
Supported Audio	I2S stereo I/O and I2S multi-channel I/O supporting all formats in HDMI 2.0, including: multi-channel PCM, Dolby True HD, DTS-HD Master Audio
Transmission Mode	10GBaseT Cat.6A (PHY), Multi-Mode Fiber (SFP+ module) - Fitted as standard, Single-Mode Fiber (SFP+ module) - Available on request
Scaling	Integrated up/down Scaler
Transmission Distance	100m via 10G Cat.6A 300m via 10G Multi-Mode Fiber 30km via 10G Single-Mode Fiber

General	
Status LED	Power, HDMI, DP and Sync Status
Latency	Genlock Mode: Less than 30µs   Compressed: Max. 120µs
Operation/Storage Temperature	-40 ~ 85°C / -10 ~ 60°C
Humidity	0% ~ 90%
Power Supply	PowerCON TRUE1 240/110VAC In and Out
Power Consumption	Approximately 15 watts
Dimensions (WxHxD)	240 x 290 x 44mm
Net Weight	2.73 kg
Safety	CE, REACH, ROHS



## NEUTRIK®

The IPAV PRO series comes with a full set of robust professional field connectors including etherCON Cat6A, opticalCON DUO and powerCON® TRUE1, fitted to recessed connector panels, for superior plug protection and connection. For additional durability and ease of part replacement, each individual panel mount connection is separated from the main PCBA. This modular port construction allows for simple and cost-effective field repair.

## PRODUCT OVERVIEW

Part Number	Color	EAN	Weight (net)	Product Size
IPAV1100-TX	Space Grey	4251364715994	2.73 kg	290 x 240 x 44,5 mm
IPAV2100-RX	Space Grey	4251364715987	2.73 kg	290 x 240 x 44,5 mm

Know - How . Quality . Design .



Innovation German Enterprises .