4KPROIP Series

4K/60hz 4:4:4 HDMI over IP 10G with KVM Encoder/Decoder/Control Box Software
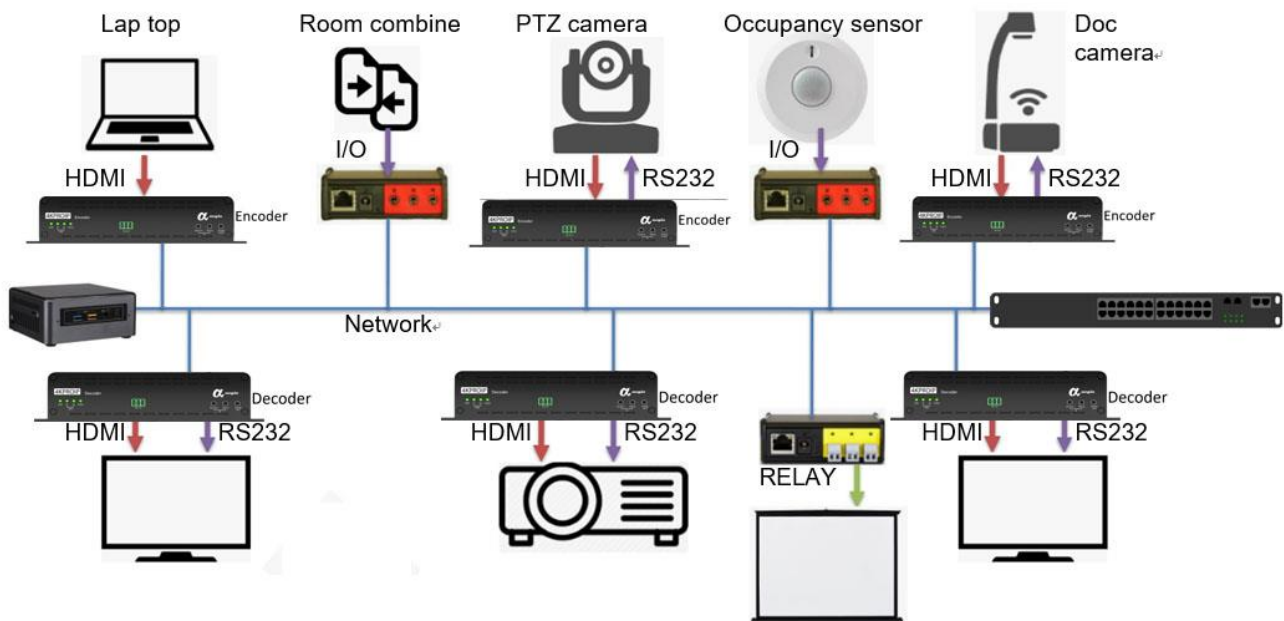
● Product Overview

4KPROIP series delivers uncompressed, zero latency, digital video signals at up to 4k resolution, using standard Ethernet infrastructure.   It can perform Matrix, Video Wall, MultiView.   It provides one of the most advanced IP Streaming solutions on the Pro AV market utilizing SDVoE technology, which synergizes various IP/AV standard to work together as One.

Based on the award winning SDVoE chip set, this revolutionary technology takes digital video signal management into the future. 4KPROIP series is built for the Pro AV industry to satisfy the demands of routing hi-resolution 4K video to multiple destinations with every pristine detail of the original source. Audio, analog and embedded are catered for with embedding and de-embedding features. RS232 and IR control are also routed alongside the video signal. A particular integrator friendly feature is completed break away switching of all signal types, video, audio, RS232 and IR, these can be routed independently to any destination. Besides, it features auto-scaling and customized GUI on smart phone and tablet devices. Scalable matrix switchers of any size can easily create, so you only pay for what you need and ensure any future expansion can be accommodated.

● Features

- Zero Compression with Zero frame latency
- Web UI shows the connection status of Encoder (TX) and Decoder (RX)
- Remotely away operational KVM, USB, IR Switching to selective P/C or DVD or TV source.
- Support stereo speakers and stereo microphone with USB option
- Centralizes control and manage via the web interface of the aegis control software box.
- The web interface shows the connection status included all the transmitter and receiver.
- Matrix switching set up and control
- Offers distribution in Matrix switching, Video Wall Function, MultiViewer and Point to Point
- Video Wall set up and control
- Multi-view set up and control
- IR (Infrared) Remote Control and USB Routing
- Flexible Scalable: support down scaling from 4K2K 60Hz to 720P or up scaling from 720P to 4K2K 60Hz
- For RJ-45 LAN device, the 1G Ethernet port allows full bandwidth end-to-end over the 10G Ethernet Switch hub on fiber or copper port.
- Cat. 6 Cable (up to 100m range) or Fiber Cable (support 10KM, 20KM, or 40KM range)

● Product Specifications

Product Model NO.	4KPROIP-CAT-EN-U	4KPROIP-FOC-EN-U	4KPROIP-CAT-DE-U	4KPROIP-FOC-DE-U
Product Name	4K over IP Copper Encoder	4K over IP Fiber Encoder	4K over IP Copper Decoder	4K over IP Fiber Decoder
Product Image				
Power Supply	Input: 100-240VAC 50-60Hz Output:12V / 3A	Input: 100-240VAC 50-60Hz Output:12V / 3A	Input: 100-240VAC 50-60Hz Output:12V / 3A	Input: 100-240VAC 50-60Hz Output:12V / 3A
Inputs	HDMI x1, IR x2, Audio x1, 1G RJ45 x1, RS232 x1, USB-B x1 (female)	HDMI x1, IR x2, Audio x1, 1G RJ45 x1, RS232 x1, USB-B x1 (female)	HDMI x1, IR x2, Audio x1, 1G RJ45 x1, RS232 x1, USB-B x3	HDMI x1, IR x2, Audio x1, 1G RJ45 x1, RS232 x1, USB-B x3
Outputs	10G LAN Port x1	10G Fiber Port SFP+ x1	10G LAN Port x1	10G Fiber Port SFP+ x1
USB A			480Mbps USB 2.0	480Mbps USB 2.0
USB B	480Mbps USB 2.0	480Mbps USB 2.0		
HDMI	HDMI 2.0 with HDP	HDMI 2.0 with HDP	HDMI 2.0 with HDP	HDMI 2.0 with HDP
HDCP	HDCP 2.2 Compliant	HDCP 2.2 Compliant	HDCP 2.2 Compliant	HDCP 2.2 Compliant
RS 232	115Baud Rate (Pass-through)	115Baud Rate (Pass-through)	115Baud Rate (Pass-through)	115Baud Rate (Pass-through)
IR	30kHz-60kHz (Bi-directional)	30kHz-60kHz (Bi-directional)	30kHz-60kHz (Bi-directional)	30kHz-60kHz (Bi-directional)
Compression	Uncompressed	Uncompressed	Uncompressed	Uncompressed
Latency	Zero	Zero	Zero	Zero
Resolution	4K/60hz 4:4:4	4K/60hz 4:4:4	4K/60hz 4:4:4	4K/60hz 4:4:4
Weight	1420g	1420g	1420g	1420g
Operation Temperature	-20℃ to +55℃ (-68℉ to 131℉)	-20℃ to +55℃ (-68℉ to 131℉)	-20℃ to +55℃ (-68℉ to 131℉)	-20℃ to +55℃ (-68℉ to 131℉)
Storage Temperature	-30℃ to +70℃ (-86℉ to 158℉)	-30℃ to +70℃ (-86℉ to 158℉)	-30℃ to +70℃ (-86℉ to 158℉)	-30℃ to +70℃ (-86℉ to 158℉)
Humidity	10% to 90%	10% to 90%	10% to 90%	10% to 90%
Dimension(LxWxH)	204x133x48mm	204x133x48mm	204x133x48mm	204x133x48mm
Raw Material	Aluminum Enclosure	Aluminum Enclosure	Aluminum Enclosure	Aluminum Enclosure

Product Number	4KPROIP-CBS
Product Name	Control Box Software
Product Image	
System Dimension (WxDxH)	145W x 84D x 35H mm
Weight	700g
CPU	Intel Bay Trail-I E3825 1.33 GHz (Dual Core) ; Intel Bay Trail-I E3845 1.91 GHz (Quad Core) (Optional J1900)
Memory Type/Capacity	E3825 DDR3L 1066MHz; E3845 DDR3L 1333MHz
On Board Memory	2GB
SSD Storage-mSATA	Yes
On Board SSD Storage	Optional
HDD Space	mSATA
VGA	Yes
DVI/HDMI	HDMI
USB	4 (USB3.0 x1 + USB 2.0 x 3)
COM	1
Mini-PCIe	2
SIM Card Holder	N/A
GPIO	N/A
Ethernet	1 x Intel GbE
Mic-in/Line-out	Line-out / Mic-in
Power Input	DC IN +12V; +9~36V (Optional)
Expansion	3G/4G, GPS, Bluetooth, WI-FI
Operating Temp	-20˚C~70˚C from mSATA
Operating Humidity	5~95%@60˚C, non-condensing