

KONA IP25

KONA IP25 brings all of the expertise, power, quality, and reliability behind the KONA product line, to SMPTE ST 2110 workflows.

$4995 US MSRP

KONA IP25 offers a tremendously flexible video and audio I/O platform with support for up to 4K/UltraHD with SMPTE ST 2110, support for up to 2K/HD with 2022-6, the ability to take advantage of 2022-7 redundancy for high availability architectures. KONA IP25 ensures you have all the tools you need to succeed as the prevalence of video over IP increases.

On the desktop, KONA IP seamlessly supports Apple® FCPX, Adobe® Premiere® Pro CC, Avid® Media Composer®, AJA Control Room, and other leading editorial, effects, and production tools. For creative users, the experience of using favored applications remains unchanged, with some differences only in setting up for capture or output with the same AJA Control Panel creative users are used to.

For developers, the same AJA SDK used for SDI and HDMI devices is also used for KONA IP25, meaning zero delays in writing applications and creating systems with this powerful PCIe capture and output card.

And for any critical/enterprise scale media production installations, the additional peace of mind that comes with a three year warranty, advance replacement and support via phone is standard with all KONA cards.

https://www.aja.com/products/kona-ip25

Video Formats

Video Formats YCbCr 4:2:2 10-bit

- (4K) 4096x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (UltraHD) 3840x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (2K) 2048x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080i 50, 59.94
- (HD) 1280x720P 50, 59.94, 60

Video Formats RGB 4:4:4 12-bit

- (4K) 4096x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (2K) 2048x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60

Note: High Frame Rate capabilities are dependent on host system attributes.

Media Transport Interfaces (In-Band)

- Uncompressed media (SMPTE ST 2110-20, 30, 40)
- PTP
- Configuration and Control
- 2x SFP28 Cages (redundant only), SFPs not included
- Supports 10 GigE and 25 GigE SFPs with FEC
- FEC 74 and 108 support for 25GigE

RJ-45 1 GigE Interface (Out-Of-Band)

- Configuration and Control

Input Uncompressed IP

- SMPTE ST 2110-20 Video
  - YCbCr 4:2:2 10-bit
  - RGB 4:4:4 12-bit
  - 4-channel input*

- Rx support for Narrow and Wide Senders
- RX support for Class-A,B,C,D ST 2022-7 redundancy

- SMPTE ST 2110-30 Audio
  - Up to 16 stream input**
  - 1, 2, or 4 streams per video**
  - Up to 16-channel audio per stream, 24-bit per channel, 48 kHz synchronous**
  - 1ms and 125us timing

- SMPTE ST 2110-40 Ancillary
  - 4 stream input**

*Format and application dependent
**Application dependent

Output Uncompressed IP

- SMPTE ST 2110-20 Video
  - YCbCr 4:2:2 10-bit
  - RGB 4:4:4 12-bit
  - 4-channel output*
  - Tx support for ST 2022-7
  - Tx senders are Narrow Gapped

- SMPTE ST 2110-30 Audio
  - Up to 16 stream output**
  - 1, 2, or 4 streams per video**
  - Up to 16-channel audio per stream, 24-bit per channel, 48 kHz synchronous**
  - 1ms and 125us timing

- SMPTE ST 2110-40 Ancillary
  - 4 stream output

*Format dependent
**Application dependent

SDR/HDR

- SDP file support for SDR/HDR Transfer Characteristics, Colorimetry, and Luminance

Discovery, Registration, and Control

- NMOS Tx/Rx support according to standards IS-04 v1.3 and IS-05 v1.1
- LLDP
- In-Band and Out-of Band
- L2, L3 with SSM
- IGMP v2, v3

IP Clock

- PTPv2 SMPTE ST 2059-2 / IEEE 1588-2008
- In-Band only

Electrical Interface

- 8-lane PCIe 4.0

Noise

- <50dBA (A-weighted at 1m in free air)
- Fan is rated at 33.1dBA

Regulatory Compliance

- UL 62368-1: 2014
- CSA-C22.2 62368-1-14
- EN 62368-1: 2014 + A11
- RoHS 3

Size (w x d x h)

- 9.75" x 0.63" x 3.88" (247.7 x 15.9 x 98.6 mm)
- Bracket Height: 5.0" (127 mm)

Weight

- 0.6 lbs (0.4 kg)

Power

- 40W typical, 50W maximum
- PC Internal or PCI Aux Power Connector (6 pin 2x3 Molex part number 45558-0003)

Note: It is recommended to provide power with PCI Aux Power connector

Environment

- Safe Operating Temperature Range: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)