



## KONA IP25

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

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>

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### Video Formats

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- (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) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080i 50, 59.94
- (HD) 720P 50, 59.94, 60

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

### Media Transport Interfaces

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- Uncompressed media (ST 2110-20, 30, 40)
- PTP
- Configuration & Control
- 2x SFP28 Cages (redundant only)- SFPs not included
- Supports 10 GigE and 25 GigE SFPs

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

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- Configuration & Control

### Input uncompressed IP

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- SMPTE ST 2110-20 Video
- RGB 4:4:4 12-bit, YCbCr 4:2:2 10-bit
  - 2-channel input\*
  - Rx support for Narrow and Wide Senders
  - RX support for Class-D ST 2022-7 redundancy

\*Format dependent

### SMPTE ST 2110-30 Audio

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- 2 stream input
- 2 to 16-channel audio per stream, 24-bit per channel, 48 kHz synchronous

- 1ms and 125us timing

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## SMPTE ST 2110-40 Ancillary

- 2 stream input

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## Output Uncompressed IP

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

\*Format dependent

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## SMPTE ST 2110-30 Audio

- 2 stream output
- 2 to 16-channel audio per stream, 24-bit per channel, 48 kHz synchronous
- 1ms and 125us timing

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## SMPTE ST 2110-40 Ancillary

- 2 stream output

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## SDR / HDR

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

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## Downstream Keyer

- Supports graphics up to UltraHD with alpha channel over video, matte or framebuffer, or framebuffer content over incoming video or matte

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## 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

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## IP Clock

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

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## Electrical Interface

- 8-lane PCIe 4.0

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## Noise

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

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## Regulatory Compliance (PRELIMINARY)

- RoHS 3
- IEC 62368-1: 2014 2nd Edition safety standard

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## Size (w x d x h)

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

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## Weight

- 0.4kg (0.6lbs)

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## 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

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## 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)