KONA® IP

Transition Seamlessly to IP

AJA
VIDEO SYSTEMS®

KONA® IP

$2,495 US MSRP*

Find a Reseller

Simple, Compatible I/O for IP Pipelines

KONA IP offers users a single, powerful 8-lane PCIe 2.0 video and audio desktop I/O card with flexible IP connectivity. Two SFP+ cages provide multi-channel 3G-SDI HD support for easy routing of video over 10 GigE IP networks. KONA IP is designed as a flexible platform that supports today's SMPTE 2022-6 IP encapsulated uncompressed 3G-SDI, HD-SDI and SD-SDI video, audio and vanc data as well as offering 2022-7 support for redundant signal support crucial for broadcast needs. KONA IP also supports JPEG 2K workflows for HD video via encode and decode to/from an MPEG 2 Transport stream with an optional software purchase. KONA IP also supports JPEG 2K workflows for HD video via encode and decode to/from an MPEG 2 Transport stream. Future firmware updates will also support additional codecs and advanced IP protocols including VSF TR-04, VSF TR-03 and more.
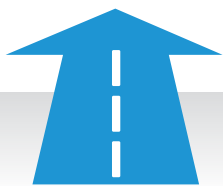
KONA® IP

KONA IP Features Include:

- Supports HD ingest and output at frame rates up to 50/60 fps
- 2 x 10 GigE SFP+ connections for Multi-Channel input and/or output
- HDMI 1.4 output for local monitoring with 8-Channel audio
- HDR 10 Support - HDR Infoframe metadata along HDMI
- HLG support via AJA Adobe Premiere Pro plugin
- JPEG 2000 workflows over 1Gb Ethernet*
- 16-Channel 48kHz 16-bit or 24-bit embedded SDI audio
- macOS, Windows and Linux support via AJA's Developer SDK
- 8-lane PCIe 2.0 video and audio desktop I/O card
- Supports 4:4:4 and 4:2:2 workflows
- Reference/LTC Input
- Software support within AJA Control Room and Control Panel

Optional Purchase

Standards

KONA IP is a flexible platform supporting SMPTE 2022-6/7 IP standards and JPEG 2K workflows. Future firmware updates will include additional codecs and advanced IP protocols including SMPTE 2110, VSF TR-04, VSF TR-03 and more.

Compatibility

Your transition to IP pipelines with KONA IP is supported by leading NLE, Compositing and Streaming applications and utilizes the same AJA software tools you know like AJA Control Room™, AJA Control Panel and AJA plug-ins for third party software.

10 GigE Connectivity

KONA IP provides two SFP cages compatible with 10 GigE SFP transceiver modules from leading third party* providers for easy integration into IP pipelines.

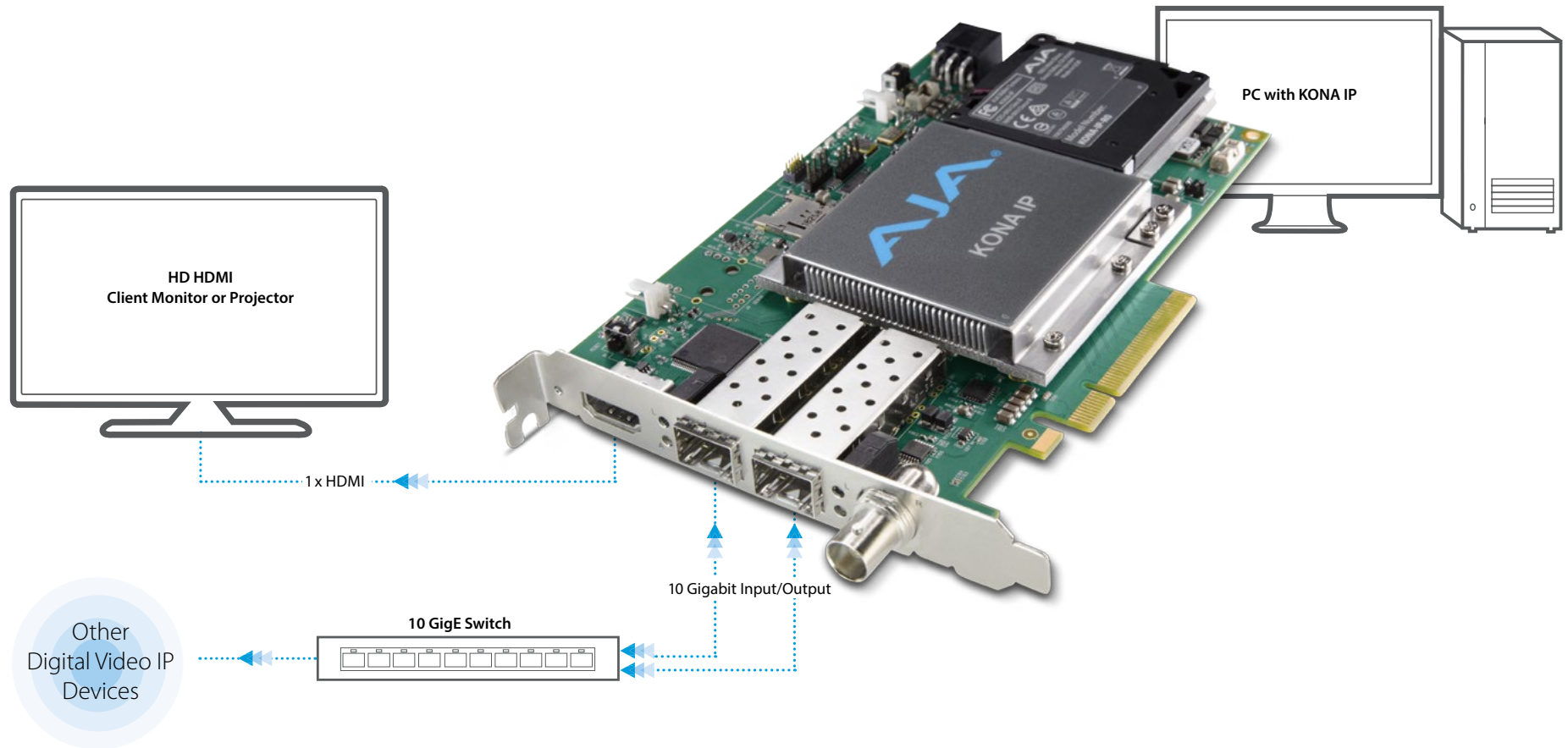*At the time of publication, AJA recommends the Fiberstore SFP-GB-GE-T.*

HDMI Monitoring

An HDMI output on KONA IP ensures you can always monitor your projects locally, cheaply and efficiently if no IP monitoring is close by.

KONA® IP

KONA® IP Powered Workflow

PC with KONA IP

HD HDMI
Client Monitor or Projector

1 x HDMI

10 Gigabit Input/Output

Other Digital Video IP Devices

10 GigE Switch

Connect your HD digital video devices via 10 GigE to KONA IP for capture, editing and delivery.

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KONA® IP JPEG 2K Workflows

SDI Source
e.g. Video Router

Creative Workstation
with KONA IP

1 x SDI

IPT-1G-SDI

1 Gb Ethernet

10 GigE Switch

1 Gb Ethernet

1 Gb Ethernet

HD HDMI
Client Monitor or Projector

1 x HDMI

IPR-1G-HDMI

Other
Digital Video IP
Devices
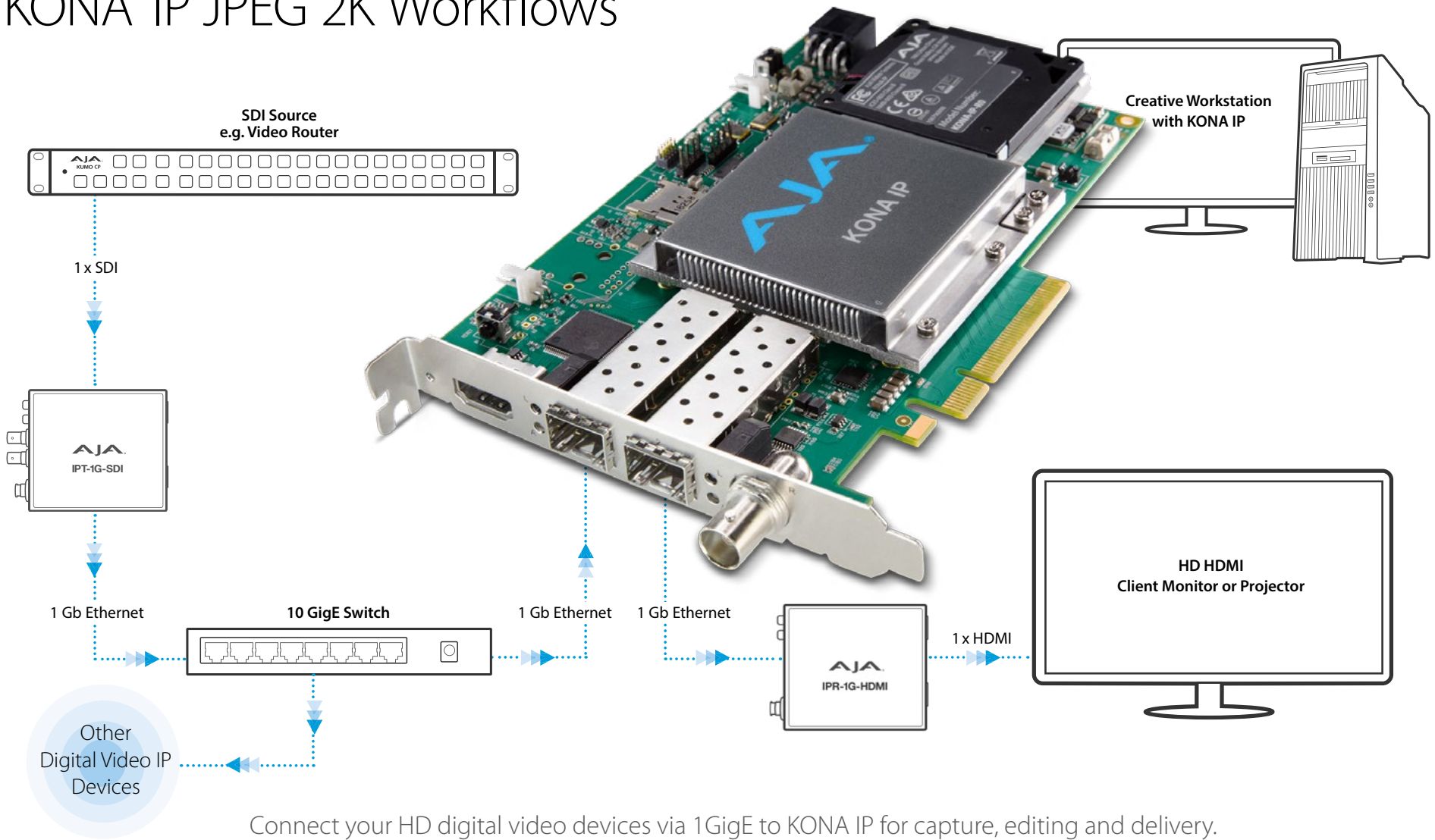
Connect your HD digital video devices via 1GigE to KONA IP for capture, editing and delivery.

For full product specifications visit www.aja.com/en/products/kona-ip/#techspecs

HDR

KONA® IP

Tech Specs

Video Formats

- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080i 25, 29.97
- (HD) 720P 50, 59.94, 60
- (SD) 625i 25
- (SD) 525i 29.97

Media Transport Interfaces

- SMPTE 2022-6, 2022-7
  - 2 x SFP+ Cages - SFPs not included
  - Recommended SFP modules: Finisar's FTLX1471D3BCL and Avago AFBR-709SMZ
- TR-01 compliant JPEG 2000 workflows*
  - 1 x SFP+ Cage (SFP not included)
  - Recommended SFP module: Fiberstore SFP-GB-GE-T

Optional Purchase

Video Input

- SMPTE 2022-6, 2022-7
  - Up to 4-Channels input
- TR-01 compliant JPEG 2000* encoded within an MPEG-2 transport stream
  - HD video over 1Gb Ethernet
  - Up to 2-Channels input

Optional Purchase

Video Output Digital

- SMPTE 2022-6, 2022-7
  - Up to 4-Channels output
- TR-01 compliant JPEG 2000* encoded within an MPEG-2 transport stream
  - HD video over 1Gb Ethernet
  - Up to 2-Channels output
- HDMI v1.4
  - 30/36 bits/pixel, RGB or YUV, 2.25 Gbps
  - 2K/HD/SD
  - HDR 10 Support - HDR Infoframe metadata, in accordance with HDMI 2.0a/CTA-861.3
  - HLG Support - in accordance with HDMI 2.0b/CTA-861-G**

Optional Purchase
**HLG support is application dependent. Check with your software manufacturer for compatibility.*

Audio Input Digital

- 16-Channel SDI embedded audio, 16- and 24-bit per channel, 48 kHz synchronous

Audio Output Digital

- 16-Channel SDI embedded audio, 16- and 24-bit per channel, 48 kHz sample rate, synchronous
- 8-Channel HDMI embedded audio, 48 kHz sample rate, synchronous

Downstream Keyer

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

Reference and LTC I/O

- 1 x BNC assignable to reference video or LTC input

Reference

- Analog Color Black (1V) or Composite Sync (2 or 4V)
- Nonterminating

Electrical Interface

- 8-lane PCIe 2.0

Size (w x d x h)

- .75" x 8.25" x 5.0" (19.05mm x 209.55mm x 127mm)

Weight

- 0.7 lb (0.4 kg)

Power

- 25W typical, 27W maximum

Environment

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

HDR

Three Year Warranty

AJA Video warrants that KONA IP will be free from defects in materials and workmanship for a period of three years from the date of purchase.

About AJA Video Systems, Inc.

Since 1993, AJA Video has been a leading manufacturer of video interface and conversion solutions, bringing high quality, cost effective digital video products to the professional, broadcast and postproduction markets. AJA products are designed and manufactured at our facilities in Grass Valley, California, and sold through an extensive sales channel of resellers and systems integrators around the world. For further information, please see our website at **www.aja.com**

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