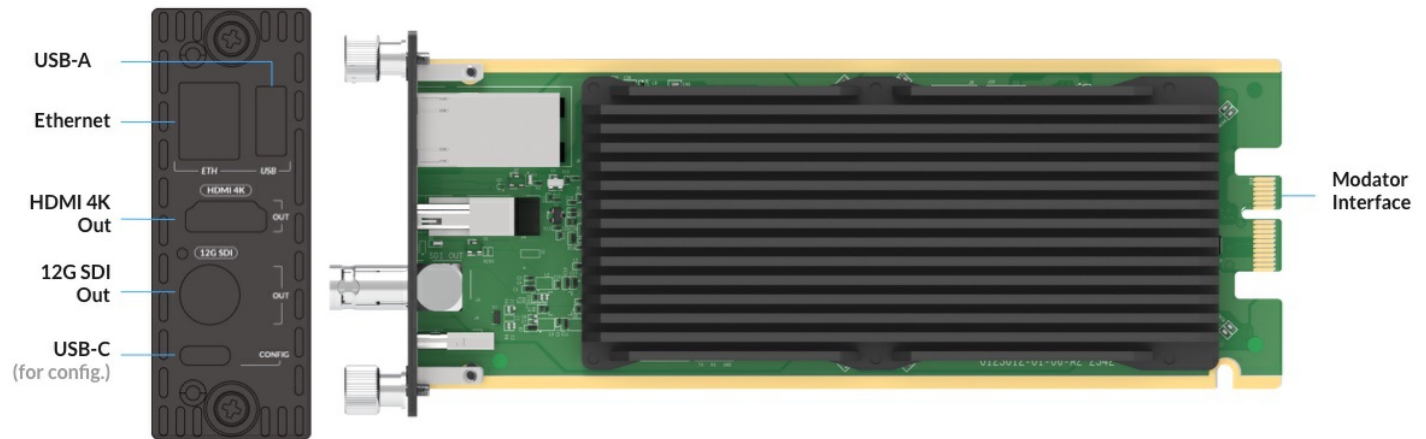


# Pro Convert IP to AIO 4K Module Technical Specifications

Converts up to four IP streams into one 4Kp60 HDMI and SDI signal

SKU: B44010000



## Product Overview

Pro Convert IP to AIO 4K Module is a hot-swappable module to be installed in the Magewell Modator chassis. Each module can decode up to four IP streams and deliver a 4Kp60 HDMI and SDI output with flexible multiview layouts. It supports the widely used H.264 and H.265 video codecs, along with IP transport protocols and streaming formats including NDI®, SRT, RTMP, RTSP, HLS, MPEG-TS, Zixi, and RIST. With its high-density modular design, the solution enables scalable deployment for IP-based video production and distribution workflows.

## Key Features

- Decodes one 4Kp60 IP stream or up to four HD IP streams for a multiview output
- Outputs one 4Kp60 video signal simultaneously via HDMI and SDI interfaces
- Supports HDR PQ/HLG
- Supports closed captions compliant with CEA-608 and CEA-708 standards
- Configure through the touch screen of Magewell Modator chassis, Web GUI or Control Hub, Zixi ZEN Master

## Technical Specifications

Revised on 08/14/2026

### Interfaces

- 1\* RJ45 1000Mbps Ethernet port
- 1\* USB Type-C port for configuration
- 1\* USB Type-A port, connecting external keyboard and mouse for settings modification
- 1\* HDMI 4K output port
- 1\* 12G SDI output port
- 1\* Modator interface for connecting to Modator 2U (hot-swappable)

### Decoding Features

- Support multiple output modes for decoding of different protocol signals
  - Single View
    - Number of decoded channels: 1
    - Supported protocols: NDI High Bandwidth, NDI HX2, NDI HX3, MPEG-TS over RTP/UDP/SRT/RIST, RTMP, RTSP, HLS, HTTP, and ZIXI
    - Formats: H.264, H.265, SpeedHQ, MPEG2
    - Resolution: Up to 4096x2160p60
  - Picture-in-Picture

- Number of decoded channels: 2
- Supported protocols: NDI High Bandwidth\*, NDI HX2, NDI HX3, MPEG-TS over RTP/UDP/SRT/RIST, RTMP, RTSP, HLS, HTTP, and ZIXI
- Formats: H.264, H.265, SpeedHQ, MPEG2\*
- Resolution: Up to 1920x1080p60
- \*Note: Only one NDI High Bandwidth or one MPEG2 format video signal can be decoded
- Quad View
  - Number of decoded channels: 4
  - Supported protocols: NDI HX2, NDI HX3, MPEG-TS over RTP/UDP/SRT/RIST, RTMP, RTSP, HLS, HTTP, and ZIXI
  - Formats: H.264, H.265
  - Resolution: Up to 1920x1080p60
- Support decoding AAC, MP3, AC3, Opus, and G.711 audio formats
- Support NDI 6.3

## HDMI Output Features

- Maximum output: 4096x2160 60fps 4:4:4 8-bit, or 4096x2160 60fps 4:2:2 12-bit (transport depth 12-bit, video depth 10-bit)
- Commonly supported output formats include:
  - 4096x2160p 23.98/24/25/29.97/30/50/59.94/60 256:135
  - 3840x2160p 23.98/24/25/29.97/30/50/59.94/60 16:9
  - 1920x1080p 24/25/29.97/30/59.94/60 16:9
  - 1920x1080i 50/59.94/60 16:9
  - 1280x720p 23.98/24/25/29.97/30/50/59.94/60 16:9
  - 720x576i 50 16:9/4:3
  - 720x480i 59.94 16:9/4:3
- Color space: BT.601/BT.709/BT.2020
- Support HDR PQ/HLG
- Audio output: 48/96KHz 8-channel
- HDMI interface: HDMI 2.0

## SDI Output Features

- Maximum output: 4096x2160 60fps 4:2:2 10-bit
- Commonly supported output formats include:
  - 4096x2160p 23.98/24/25/29.97/30/50/59.94/60 256:135
  - 3840x2160p 23.98/24/25/29.97/30/50/59.94/60 16:9
  - 1920x1080p 24/25/29.97/30/59.94/60 16:9
  - 1920x1080i 50/59.94/60 16:9
  - 1280x720p 23.98/24/25/29.97/30/50/59.94/60 16:9
  - 720x576i 50 16:9/4:3
  - 720x480i 59.94 16:9/4:3
- Output YUV BT.601/709/2020 signals
- Audio output: 48KHz 8-channel
- SD/HD/3G/6G/12G-SDI output interface
- Support SD (ST 259)/HD (ST 292)/3Ga (ST 425)/3Gb (ST 425)/3Gb-DL (ST 425)/3Gb-DS (ST 425)/6G (ST 2081)/12G (ST 2082) standards
- Support Closed Caption compliant with CEA-608 or CEA-708 embedded CEA-608 standards
- Output HDR (PQ / HLG) through ANC metadata
- Output 12G-SDI signals up to 55m, 6G-SDI signals up to 75m, and 3G-SDI signals up to 130m

## Configuration Management

- Supports registration with Control Hub and Zixi ZEN Master for remote centralized management
- Provide WebUI tools
- Provide comprehensive information regarding the device and decoded signals in real-time
- Supports preview of output images and PTZ control
- Configure audio and video signal decoding and output parameters, including OSD, deinterlacing, video format, audio gain, sample rate, Ping test, security settings, configuration files import and export, and network connections
- Supports firmware upgrade
- Supports USB NET
- Supports Edge/Firefox/Chrome/Safari/Opera web browsers
- Supports HTTP APIs

## LED Indicators

- Decoding status indicator
  - Solid blue: All selected sources in single/multiple decoding are decoding normally
  - Solid red: All selected sources in single/multiple decoding are decoding abnormally
  - Solid green: Both normal and abnormal decoding conditions exist in multiple decoding
  - Off: No sources selected in single/multiple decoding

## Physical Specifications

- Form factor: 184.4mm (L) x 30.0mm (W) x 81.5mm (H)
- Weight: ≈ 300g

## Power Consumption

- Maximum power consumption: ~14.6W

## Operating Environment

- Operating temperature: 0 to 50 deg C
- Storage temperature: -20 to 70 deg C
- Relative humidity: 5% to 90% non-condensing

## Notice

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