MAGEWELL®

Pro Convert HDMI 4K Plus Module Technical Specifications

Converts a 4K HDMI input signal into high-bandwidth NDI® with loop-through

SKU: B40110000

Product Overview

Pro Convert HDMI 4K Plus Module is a hot-swappable module to be installed in the Magewell Modator chassis. It is capable of converting an HDMI signal up to 4Kp60 into high-bandwidth NDI® stream, providing a higher-density product form factor and a scalable solution for IP-based production and distribution deployments.

Key Features

- Max input & loop through signal at 4096x2160 60fps
- 8-channel HDMI embedded audio inputs
- Encode NDI® High Bandwidth real-time stream at up to 4096x2160 60fps or 1920x1080 240fps 4:2:2 8-bit
- Encode 8-channel NDI®-embedded audio
- Send NDI® streams across network segments
- Support NDI® 5.x
- Configure through the touch screen of Magewell Modator chassis, Web GUI or Control Hub

Technical Specifications

Revised on 23/04/2025

Interfaces

- 1* RJ45 1000Mbps Ethernet port
- 1* USB Type-C port for configuration
- 1* HDMI 2.0 input port
- 1* HDMI 2.0 output port
- 1* Modator interface for connecting to Modator 2U (hot-swappable)

Input & Loop-Through Features

- Max. input & loop-through signal: 4096x2160 60fps 4:4:4 8-bit
- Input videos at any format by customizing the EDID of input port
- Supports RGB and YUV BT.601/709/2020 signals
- Supports 8-channel HDMI-embedded audio

NDI® Encoding Features

- Encode and output real-time streams of NDI High Bandwidth at up to:
  - 4096x2160 60fps 4:2:2 8-bit
  - 1920x1080 240fps 4:2:2 8-bit
- Output the same resolution as input or any custom resolution. Typical outputs include:
  - 4096x2160p/3840x2160p/2048x1080p 23.98/24/25/29.97/30/50/59.94/60
  - 1920x1080p/1280x720p 23.98/24/25/29.97/30/50/59.94/60/100/119.88/120
  - 1920x1080i 25/29.97/30/50/59.94/60
  - 720x480p/720x480i 59.94/60/119.88/120
  - 720x576p/720x576i 50/100
- Output frame rate same as the original, 1/2, 1/3 or 1/4 of input frame rate
- Encode 8-channel NDI-embedded audio
- Supports NDI 5.x

Web UI

- Register with Magewell Control Hub for remote centralized management
- Supports configuring and managing via Web UI

- Provides comprehensive information regarding the device and signals in real-time
- Allow to configure how a signal is encoded and output, including deinterlacing, EDID settings, up/down scale, frame rate, aspect ratio, as well as the network connection
- Supports updating firmware
- Supports USB RNDIS/ECM
- Supports IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Provides HTTP APIs

LED Indicators

- Input signal:
    - On: locked
    - Off: unlocked
- Loop through signal:
    - On: device connected and signal detected
    - Off: undetected

Physical Specifications

- Form factor: 184.4mm (L) x 30.0mm (W) x 81.5mm (H)
- Weight: ≈295g

Power Consumption

- Max power consumption: 7W

Working Environment

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

Notice