

MAGEWELL

Pro Convert for NDI[®] to HDMI Technical Specifications

Copyright (c) 2011–2021 [Nanjing Magewell Electronics Co., Ltd.](http://www.magewell.com) All rights reserved.

Specifications are based on current hardware, firmware and software revisions, and are subject to change without notice.

HDMI, the HDMI logo and High-Definition Multimedia interface are trademarks or registered trademarks of HDMI Licensing LLC. NDI is trademark or registered trademark of NewTek Inc.

Revised 27/01/2021

Output Features

- Max output: 4096x2160 60fps 4:4:4 8-bit
- Delivering video at the preferred video format according to the EDID of the connected monitor. Supported output formats include:
 - 4096x2160p/3840x2160p 23.98/24/25/29.97/30/59.94/60
 - 2560x1440p 60/100
 - 2560x1080p 23.98/24/25/29.97/30/50/59.94/60
 - 1920x1080p 23.98/24/25/29.97/30/50/59.94/60/100/119.88/120
 - 1920x1080i 50/59.94/60
 - 1280x720p 23.98/24/25/29.97/30/50/59.94/60
 - 720x576p50
 - 720x576i50
 - 720x480p59.94/60
 - 720x480i59.94/60
- Support 48KHz 8-channel audio output
- HDMI interface: HDMI 1.4/2.0

Decoding Features

- Decoding up to 2Kp60 streams of Full NDI, NDI|HX, NDI|HX2, RTSP, HTTP, HLS, RTMP Pull/Push and MPEG-TS over UDP/SRT/RTP protocols
- H.264/H.265 video decoders
- AAC/MP3 audio decoders
- Support NDI 4.x

Web UI Management

- Provide comprehensive information regarding the device and decoded signals in real-time
- Allow to configure how a signal is decoded and output, including OSD settings, deinterlacing, resolutions, audio gain, sample rate, and channel mapping, as well as the network connection
- Update firmware
- Support USB RNDIS/ECM
- Support IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Provide HTTP APIs

On-board Control Buttons

- MENU: press to display the menu, or cycle through the options
- SELECT: press to display the menu, enter current option, or confirm the selection
- 16 Position Rotary DIP Switch: set board-index from 0 to F

Network Interfaces

- 10/100/1000Mbps Ethernet
- IEEE 802.3af PoE

USB Interfaces

- USB2.0 Type B
 - 5V/2.1A power supply

- USB RNDIS/ECM
- USB3.0 Type A
 - Connecting peripherals (keyboard and/or mouse) to customize the video and audio settings

LED Indicators

- Power LED status indicator
 - On: power connected
 - Off: power unconnected
- Decode LED status indicator
 - On: decoding
 - Blinks: decoding error
 - Off: source unselected

Form Factor

- 100.9mm (L) x 60.2mm (W) x 23.3mm (H)

Accessories

- USB 2.0 A to B cable
- 5V/2.1A power adaptor
- L-bracket

Screw Mounting Hole

- ¼–20 threaded hole

Power Consumption

- 5V max current: ~1.1A
- Max power consumption: ~5W

Working Environment

- Operating temperature: 0 to 40 deg C
- Storage temperature: –20 to 70 deg C
- Relative humidity: 5% to 90% non-condensing