Pro Convert for NDI® to AIO Technical Specifications

Copyright (c) 2011–2025 Nanjing Magewell Electronics Co., Ltd. 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 Vizrt NDI AB.

Revised on 07/24/2025

HDMI Output

- Max output: 1920x1080p60
- Delivery video within 2K at the preferred video format according to the EDID of the connected monitor
- Support YUV BT.601, YUV BT.709 signal
- Support 48KHz 8-channel audio output
- HDMI interface: HDMI 1.4

SDI Output

- Max output: 1920x1080p60. Supported output formats are:
  - 1920x1080p 23.98/24/25/29.97/30/50/59.94/60
  - 1920x1080i 50/59.94/60
  - 1280x720p 23.98/24/25/29.97/30/50/59.94/60
  - 720x576i50
  - 720x480i59.94
- Support YUV BT.601/709 signal
- Support 48KHz 8-channel audio output
- SD/HD/3G-SDI BNC output
- Support SD (ST 259)/HD (ST 292)/3Ga (ST 425)/3Gb (ST 425)/3Gb-DL (ST 425)/3Gb-DS (ST 425) SDI standards
- Output 3G-SDI signal and transmitted distance at 130m (427ft)

Decoding Features

- Decoding up to 2Kp60 streams of NDI High Bandwidth, NDI HX, NDI HX2, NDI HX3, RTSP, HTTP, HLS, RTMP Pull/Push, and MPEG-TS over UDP/SRT/RTP protocols
- Simultaneously decode and output HDMI and SDI signals
- H.264/H.265 video decoders
- AAC/MP3 audio decoders
- Support NDI 6.2

Configuration Management

- Register with Control Hub
- Remote control via WebUI and Control Hub
- 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 Interface

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

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: ~1.05A
- Max power consumption: ~5.5W

Working Environment

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