

MAGEWELL

Pro Convert for NDI[®] to SDI Technical Specifications

Copyright (c) 2011–2023 [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.

NDI is trademark or registered trademark of NewTek Inc.

Revised on 28/02/2023

Output Features

- 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, YUV BT.709 signals
- 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 greater than 100m (328ft)

Decoding Features

- Decoding up to 2Kp60 streams of Full NDI, NDI[®]|HX, NDI[®]|HX2, NDI[®]|HX3, 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 5.x

Configuration Management

- Register with Magewell Cloud
- Remote control via WebUI and Magewell Cloud
- Provide comprehensive information regarding the device and decoded signals in real-time
- Allow to configure how a signal is processed and decoded, including:
 - OSD setting, deinterlacing, resolution, frame rate, AR conversion
 - audio gain, sample rate and audio channel mapping
 - 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 set up device

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