MAGEWELL

Pro Convert for NDI® to SDI Technical Specifications

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

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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 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 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