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MAGEWELL

Pro Convert for NDI[®] to AIO Technical Specifications

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HDMI Output

- HDMI interface: DVI-D 1.0/HDMI 1.4
- Max output: 1920x1080p60
- Delivery videos 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 16bits 8-channel audio output

SDI Output

- BNC: SD/HD/3G SDI
- Max output: 1920x1080p60. Supported output formats are:
 - 1920x1080p60/59.94/50/30/29.97/25/24/23.98
 - 1920x1080i60/59.94/50
 - 720p60/59.94/50/30/29.97/25/24/23.98
 - 720x576i50
 - 720x480i59.94
- Support YUV BT.601, YUV BT.709 signal
- Support 48KHz 16bits 8-channel audio output
- Output SDI signal and transmitted distances are as follows:

Signal	Distance	
SD-SDI	200m	656ft
HD-SDI	150m	492ft
3G-SDI	120m	394ft

Decoding Features

- Support decoding 1080p60 streamings of Full NDI, NDI|HX, NDI|HX2, RTSP, HTTP, HLS, RTMP Pull/Push, and MPEG-TS over UDP/SRT/RTP protocols
- Simultaneously decode and output HDMI and SDI signals
- Support for NDI 4.5
- Support for H.264/H.265 video decoders
- Support for AAC/MP3 audio decoders

Web GUI Management

- Provide comprehensive information regarding the device and input signals in real-time
- Allow to configure how an input signal is processed and decoded, including:
 - OSD setting, deinterlacing, resolution, frame rate, AR convert, EDID
 - audio gain, sample rate and audio channel mapping
 - network connection
- Firmware update
- Support USB RNDIS/ECM
- Support IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Support with HTTP APIs

Supported Web Browsers

- Microsoft Internet Explorer 11
- Microsoft Edge
- Mozilla Firefox version 61 and above
- Google Chrome version 49 and above
- Apple Safari 11.1 and above
- Opera 55.0.2994.44 and above

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 Indicator

- Power LED status indicator
 - On: power connected
 - Off: power unconnected
- Decode LED status indicator
 - On: decoding in progress
 - 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

- $\frac{1}{4}$ –20 mounting 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