MAGEWELL

Pro Convert AES67 Technical Specifications

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

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Receiving/Input Features

- Support for sample rates of 96/48/44.1 KHz, and 16/24bit sample depth
- 1 x 2-channel 3.5mm TRS unbalanced in (5k Ohm)
- 1 x 2-channel 4.4mm TRRRS balanced in (20k Ohm)
- 1 x 4-channel 24-bit/48k USB Audio Class in
- Receiving 4 x 8-channel 24-bit AES67 (compatible with SMPTE ST 2110-30) streams both multicasted and unicasted
- Receiving 1 x 4-channel 16-bit Network audio stream with Icecast, SRT, or NDI protocol, via Ethernet
- Frequency Response 20Hz ~ 20kHz (-/+0.5dB)
- Dynamic range > 100dB
- Signal to noise ratio > 100dB
- Total harmonic distortion < 0.01% @ +4dBu
- Support for PTP master/slave
- Max signal level: unbalanced at 12dBu, balanced at 24dBu
- Device buffer at 0.125 ~ 64 ms (controlled via WebUI, 1 to 16 packets with packet time at 0.125/0.25/0.333/1/4 ms)

Sending/Output Features

- Support for sample rates of 96/48/44.1 KHz, and 16/24bit sample depth
- 1 x 2-channel 3.5mm TRS unbalanced out (10 Ohm)
- 1 x 2-channel 4.4mm TRRRS balanced out (150 Ohm)
- 1 x 4-channel 24-bit/48k UAC out
- Multicast (IGMPv2) and unicast up to 8 x 8-channel 24-bit AES67 (SMPTE ST 2110–30 compliant) streams
- Encoding and transmitting 1 x 4-channel 16-bit audio stream with Icecast, SRT, and NDI protocol
- Support for PTP master/slave
- Total harmonic distortion < 0.01% @ +4dBu
- Frequency Response 20Hz ~ 20kHz (-/+0.5dB)
- Dynamic range > 100dB
- Signal to noise ratio > 100dB
- Max signal level: unbalanced at 12dBu, balanced at 18dBu

Configuration Management

- Registration with Magewell Cloud
- Remote control via WebUI and Magewell Cloud
- Provision of comprehensive information regarding the device and signals in real-time
- Configuration of how an input is processed and encoded, including sampling, packets, PTPv2(IEEE 1588–2008), channel adjustment, audio mixing, buffer, as well as the network connection
- · Support for updating firmware
- Support for USB RNDIS/ECM
- Support for IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Provision of HTTP APIs

Interfaces

- 10/100/1000Mbps with PoE (IEEE 802.3af)
- USB2.0 Type B
 - 5V/2.1A power supply
 - USB NET
- 3.5mm TRS unbalanced IN/OUT
- 4.4mm TRRRS balanced IN/OUT

LED Indicators

- · Power LED indications:
 - on: power on
 - o off: power off
- PTP LED indications:
 - on: synced
 - o off: not synced
 - o blinking: syncing

Form Factor

• 100.9smm (L) x 60.2mm (W) x 23.3mm (H)

Accessories

- 4.4mm to Dual XLR Male Cable
- 4.4mm to Dual XLR Female Cable
- USB 2.0 cable (Type A to Type B)
- Universal power adapter
- L bracket

On-board Control Buttons

• 16 Position Rotary DIP Switch: sets board-index from 0 to F

Screw Mounting Hole

• 1/4-20 threaded hole

Power Consumption

- 5V max current: ~ 1 A
- Max power consumption: ~ 5 W

Working Environment

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