IP-8i

AES3/AES67 interface

Professional 8-channel audio to AES67 interface

Compatible with RAVENNA, Livewire & Dante

2wcom

IP-8i - 8 stereo audio channels to AES67 interface

Audio coding fitting to your needs

8 stereo audio channels digital AES/EBU or 4 stereo channels analogue input to AES67 Raenna/ Dante interface

▶ All audio inputs will be controlled & monitored
▶ Live listing to monitor all audio channels via Icecast

AES67 interface conversion

Input format: Audio
▶ 8x stereo digital AES3 inputs or 4x analogue
▶ Optional input via Icecast streaming
▶ 8x RS232 (RDS/UECP)
▶ 8x Relays input

Output format: linear PCM
▶ Ravenna Interface
▶ Dante interface
▶ Dual Ethernet connector for AES67
▶ Up to 8 AES67 IP output streams

Backup / advanced redundancy management

▶ Flexible automatic switch over concept with free definition of alternative input sources as redundancy solution in case of failures
▶ Dual IP ports for data + 1 IP port for control interface

Control

▶ 3 separated Ethernet ports; 2x data port & 1x management port
▶ Remote control with various possibilities: HTTPS, FTP, NMS, SNMP,
▶ Revised configuration via web user interface for easier setup
▶ Insertion of localized advertisement
▶ SNMP v2c, v3, relays

Special

▶ Energy efficient 24/7 broadcast quality
▶ Support of auxiliary data (RBDS/RDS or PAD) and GPIO forwarding

Monitoring

▶ Audio and IP parameters via SNMP v2c, v3 and contact closures
▶ Headphone output
▶ Icecast live listening for confidence monitoring

Power supply

▶ Base model with single power supply
▶ Optional: Dual internal or dual hot-swappable power supply 90 - 260 VAC or -48 VDC

Your audio. Our solution.

IP-8i – Audio to AES67 interface

Advanced control functionalities

▶ HTTP/HTTPS: via web interface
▶ FTP: XML file control
▶ NMS: Control via centralized network management system

Perfect audio quality

▶ Balanced analogue and digital AES/EBU (integrated XLR connector)
▶ Icecast/Shoutcast as backup input

Advanced IP robustness functionalities

▶ Operates under stressful network conditions
▶ PRO MPEG FEC
▶ Management of packet size, buffer and QoS

Highly sophisticated monitoring and alarm concept

▶ Adjustable silence detection
▶ SNMP, alarm, source switch & event logging

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Audio (encoder)

Codecs

Standard	PCM (AES67)
Optional:	Icecast decoder
Sample rates	32 kHz, 44.1 kHz, 48 kHz
Digital audio bandwidth	10 Hz through to 22.5 kHz mono & stereo @48kHz sample rate
Sample rate converter	8:1 (up) and 1:7,5 (down) with bypass modes

Interfaces

Audio

Digital (in)	8x AES/EBU, 110 Ω bal., integrated XLR-3
Analog (in)	4x L/R, > 10k Ω bal., integrated XLR-3
Headphone (out)	L/R, < 10 Ω, 6,3 mm
Analog reference level	+9dBu (max. +18dBu)
Digital reference level	-9 dBFS (adjustable)
Dynamic range	16 Bit, > 89 dB
	24 Bit, > 130 dB
Frequency response	0,1 dB; 20 Hz…20 kHz

Ethernet

Data	Audio, serial data and GPIO transmission, controlling and setup functions
Connector	3x RJ45
Type	Auto switching 10/100/1000 BASE-T
Protocol	RTP/RTCP/UDP, IGMP, ICMP, DHCP, HTTP, FTP, SNMPv2c/v3, TCP

Serial

Interface	8x RS-232 Sub D-9 using break-out cable
Data transmission format	Ancillary data embedded in audio or own IP link
Transmission rate	1200 to 115200 baud, asynchronous

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Technical details 2/2

Interfaces

Contact closure
Inputs	8 inputs
Outputs	8 floating relays
	(7x SPST, 1x SPDT)
	(for DC: max. 30 V, 0.5 A)
	26 pole sub-D male

Internal storage
Data	Option: internal audio files
Size	7 GB

Time synchronization (optional)
PTP	Network synchronization according to IEEE 1588-2008

Control & monitor

Ethernet
Data	Controlling and setup functions
Protocol	2wcom NMS, Telnet, HTTP/HTTPS, UDP, IGMP, ICMP, DHCP, FTP, SNMPv2c/v3

Front panel
LCDisplay	Graphical, 264x64 pixel
Jog wheel	Impulse, enter button
4 duo LEDs	Power, input, output, warning

General data

Power consumption	<40 VA (<20W)
Case dimensions	19'', 1 HU,
	Depth: 310 mm,
	Width: 424 mm,
	Front panel: 484 mm
Weight	< 6 kg
Material	Steel plate (aluminium-zinc coated)
Operating temp. range	0...+45°C
Storage temp. range	-40...+70°C
Languages	English

Power supply
Standard	1x internal, 90...260 VAC, 47...63 Hz, 1x power port (IEC connector)
Optional	Two internal redundant power supplies (90...260 VAC or 48 VDC), 2x power port (IEC connector), automatic switchover
Optional	Two hot swappable redundant power supplies (90...260 VAC or 48 VDC), 2x power port (IEC connector), automatic switchover

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These data are subject to modifications and amendments. Errors excepted.

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