

STREAMER MAX MKII | ELITE

AUDIO OVER IP ENCODER/DECODER

AUDIO DISTRIBUTION OVER-IP
AUDIO DISTRIBUTION FOR P.A.
POINT-TO-POINT LINKS (STL)
MULTICAST CONNECTIONS
RADIO INSTORE
BRAND AUDIO NETWORKING



HIGHLIGHTS

- Metadata streaming (Tags)
- SNMP compliant (V1,V21...)
- Configuration via web browser
- Auto re-connect
- Protocols: Opus, PCM, OGG Vorbis, MP2*, MP3*, AAC*
- Up to 32 clients at the same time
- Built-In web server
- WiFi & UMTS connection (Optional)
- AGC - Automatic Gain Control
- Serial Data Tunneling
- Analog and Digital I/O (XLR connections)
- Microphone level input
- GPI Tunneling
- Highly accurate jitter and rate correction



* licence not included

OVERVIEW

STREAMER MAX is an hardware device for audio signals coding/encoding over IP (bidirectional/full duplex). It is compatible with most of worldwide standards and it has an architecture open to support future formats and customizations. It combines application versatility (Studio, STL, Portable) with easiness of use. **STREAMER MAX** has both analogue and digital inputs outputs in order to allow maximum flexibility of installation and connectivity. Specifically designed for broadcast applications, **STREAMER MAX** is a high quality and high performance device with professional features such as data tunneling for RS-232 serial port and GPIO management. **STREAMER MAX** is also suitable for consumer applications, from audio stream in point-to-point environments to audio distribution for public addressing. The duty aluminum body, the battery box and the universal power supply allow installation in any kind of environment in any conditions.



ORDER CODE: STREAMER MAX MKII
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TECHNICAL SPECIFICATIONS

AUDIO ENCODER		
SUPPORTED PROTOCOLS	RTP, RAW, TCP/IP, UDP/IP, Icecast Source, Icecast Server, Shoutcast Source, Half-Duplex, Full-Duplex, Unicast point-to-point, Broadcast Multi-Point	
Half-Duplex Full-Duplex	PCM, MP3*, Opus, Vorbis PCM, MP3*, Opus	
Max Client connected	32 as encoding Icecast Server in MP3, Vorbis and Opus	
AUDIO ENCODER MODULE		
RTP-UDP	PCM, Opus, MP3*, AAC*	
RAW-UDP	MP3*	
Icecast Source	Icecast Source MP3, Opus, Vorbis	
Icecast Server	Icecast Server Vorbis, Opus, MP3*	
Shoutcast Server	Shoutcast Source MP3	
SAMPLE RATE & BITRATE		
PCM	44.1 kHz - 1.412,2 kbps linear 16 bit	
MP3	44.1 kHz - 24 ... 192 kbps IN STEPS	
Vorbis	44.1 kHz - 32 ... 320 kbps IN STEPS	
Opus	48.0 kHz - 6 ... 320 kbps IN STEPS	
PHYSICAL		
	MAX MKII	ELITE
Graphic Display LCD	-	yes
Encoder with Enter button	-	yes
Headphone jack Output	-	yes
1x front USB 2.0 FullSpeed	-	yes
Graphic display	-	yes
Power supply	100-240 Vac 50/60 Hz internal universal PS- 15 W	
Dimensions and weight	22 x 5 x 25 cm (LxHxD) - 2.0 Kg	

INPUT MODULES	
Encoder Streaming Source	User selectable between Analog, Digital AES/EBU, Microphone
Audio AGC	Audio control for input audio module
ANALOG INPUT MODULE	
Connectors	2 x XLR, female - Electronically balanced
A/D Conversion	24bit Sigma-Delta Conversion
Operative Nominal Level	From -20.0dB to 20.0dB with 0.1dB/Step
Input Modes	Stereo, Mono L, Mono R, Mono L+R
DIGITAL INPUT MODULE	
Connectors:	2 x XLR, female – Electronically balanced
Format	AES3/EBU
Sample rates	32 kHz 44.1 kHz 48 kHz 96 kHz
Operative Nominal level:	-20.0 dB to +20.0 dB with 0.1 dB/step
Input Modes:	Stereo, Mono L, Mono R, Mono L+R
MICROPHONE INPUT MODULE	
Connectors	XLR, female- Electronically balanced
A/D Conversion	24bit Sigma-Delta Conversion
Operative Nominal Level:	0.0dB- +60.0dB with 0.1dB/Step
CONNECTIONS	
General Purpose Input	2x Photo coupler, 5 Vdc- 10 mA
General Purpose Output	2x Open collector, 5 Vdc max, 10 mA
GPIO Purpose	GPIO Mirror/tunneling in RTP Mode
Ethernet connection	1 x Standard Ethernet via RJ45

OUTPUT MODULES	
ANALOG OUTPUT MODULE	
Connectors	2x XLR, male- Electronically balanced
D/A Conversion	24bit Sigma-Delta Conv. – 32 kHz Sample rate
Output Level	-20.0 dB to +20.0 dB with 0.1 dB/step
Distortion	Less than 0.02% TDH+Noise (0.0dBu @ 1Khz)
DIGITAL OUTPUT MODULE	
Connectors	2 x XLR, Male – Electronically balanced
Format	AES3/EBU
Sample rates	32.0 – 44.1 – 48.0 kHz 24 bits
Operative Nominal level:	-20.0 dB to +20.0 dB with 0.1 dB/step
Distortion	less than 0.01% TDH+NOISE (-20dBfs @ 1KHz)
Freq response	20Hz-15kHz
Output sources	Decoder IP
AUDIO DECODER MODULE	
RTP-UDP	PCM, Opus, MP3*
RAW-UDP	MP3*
Icecast	MP3*, Opus, Vorbis, AAC*
Shoutcast	MP3*, Opus, Vorbis, AAC*
SNMP MODULE	
NMS managed	Up to 4 simultaneously
Trap delivery	Audio enc/dec failure, input clipping, status
Trap dispatch timing	Selectable between 0 to 1000 min.
Trap type	trapSnmpV1, or trapSnmpV2 and informSnmpV2
Failure trap	User selectable

Technical specs in this leaflet are provided for information purpose only and are subject to change without further notification