BROADCAST TOOL

Model DB9009-TX

Second Generation Multi Protocol Audio over IP Encoder

DB9009-TX is a second generation multi protocol Audio over IP Encoder, designed in line with the latest market requirements. Designed to be user friendly in terms of operation, this device is perfect for both inexperienced and professional broadcasters alike. DB9009-TX can work with either analog or digital audio signal. The compressed output signal is directly transmitted over the IP-based networks to one or more compatible IP Audio players or decoders.

Since DEVA's products are manufactured to meet the highest standards, the encoding of the audio sources into high quality configurable format, is made in real time by HE-AAC Versions 1 and 2 or MPEG-1 Layer 3. This in combination with the lossless uncompressed PCM stream, unaffected by the variable network conditions, guarantees long distance audio transmission without quality loss.

This affordable device impresses with its new and precise milled front panel, aluminum sheet body, OLED Graphical Display and Intuitive navigation menu. The status monitoring of the audio levels (visualized in bar graphs) and the connection information and configuration, have never been so easy, thanks to the OLED Graphical Display and the Intuitive Navigation Menu. The Soft Buttons indicators placed on the bottom side of the OLED display are used for navigation through the menus and for quick access to the parameters, modes, functions and as well as for altering their values.

Upon selecting the audio source, the encoded in real time audio will be instantly send to the network. The new and improved DB9009-TX can act simultaneously as an Icecast compatible Server, Icecast source client or Real Time Protocol (RTP) sender. Through the RS-232 port, this device could be easily transformed from an Ethernet to a serial Redirector, enabling quick integration of the existing audio systems to the Internet.

DB9009-TX offers exceptional features at an affordable price. Its trouble-free operation guarantees long term reliability and easy firmware updates, directly on the field or remotely via the free of charge, password protected WEB Interface. Once installed on its operation place, this device will be ready for the 24/7/365 operation.

FEATURES

- **Icecast Source Client functionality**
- **Up to 320 kbps under MPEG-1 Layer 3**
- **Easy to read OLED Graphical Display**
- **Ethernet to RS-232 Redirector**
- **Excellent Audio Performances**
- **Up to 56 kbps under HE-AAC**
- **Intuitive Navigation Menu**
- **RTP Audio Compatible**
- **UPnP for easy discovery in Local Networks**
- **Configuration and Monitoring via SNMP Ver.2C**
- **32 kHz, 44.1 and 48 kHz sample rates support**
- **5 LEDs and Phones output for quick diagnostics**
- **Full Control and easy setup via a standard web browser**
- **High Quality HE-AAC (v.1 and v.2) and MPEG-1 Layer 3 Codecs**
- **IP address pronunciation at startup (through the headphones)**
- **Shoutcast/Icecast compatible TCP/IP stream server (10 clients)**

DEVA® BROADCAST

P.O.Box 353, 8000 Bourgas, Bulgaria
Phone: +359 56 820027, Fax: +359 56 836700
www.devabroadcast.com, info@devabroadcast.com

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SPECIFICATIONS

Audio Encoder	
Count	2 user selectable plus 1 fixed (PCM)
Codec	HE-AAC (v.1&2), MPEG-1 Layer 3, raw PCM
Sample rates	32 kHz, 44.1 kHz and 48 kHz
Channels	1 or 2
Bit Rates	Up to 88 kbps (HE-AAC);
	Up to 320 kbps (MPEG-1);
	Up to 1536 kbps (PCM);

MPEG-1 Layer 3 specific	
Encoding mode	Mono & Stereo, Joint Stereo or Dual Channel
Emphasis	50µs, CCITT J.17 or none

IP Audio Server	
Type	SHOUTcast/Icecast compatible TCP/IP stream server
Codec	Any of the available
Count	Up to 10 simultaneously connected clients

Icecast Source Client	
Type	Icecast Source Client
Codec	Any of the available
Count	Up to 3 independent streams

SHOUTcast Source	
Type	SHOUTcast v1Source
Codec	Any of the available
Count	Up to 3 independent streams

RTP Sender	
Type	Unicast/Multicast RTP Sender
Codec	Any of the available
Count	Up to 3 independent streams

Size and Weight	
Dimensions (W;H;D)	485 x 44 x 180 mm
Shipping Weight	540 x 115 x 300 mm / 2.6kg

Analog audio input	
Connector	2 x XLR, stereo
Type	Balanced
Level	+18 dBu (max. +19dBu), user selectable
Distortion	<0.01% THD+N
Sample rate	32 kHz, 44.1 kHz and 48 kHz
Dynamic range	102 dB

Digital audio input	
Connector	XLR
Type	AES/EBU
Resampling	Thru build-in sample rate converter

Front panel	
Display	High-resolution OLED
Status Indicators	5 LEDs
Headphones	1/4” (6.3mm) phones jack

User interface	
Indicators	OLED display + 5 LEDs on front panel
Web interface	Full control and status information
Connector	RJ-45
Type	Ethernet
Device discovery	UPnP support

Power requirements	
Connector	IEC320
Power supply	100-240V / 50-60 Hz / 25W

Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level

WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS

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