Model DB910

Full Duplex Compact IP Audio Codec

Inspired by DEVA continuous strive for excellence, and based on our long-term formative experience in the field of IP audio broadcasting tools, DEVA product portfolio is extended with yet another strategic solution - the DB910 Full Duplex IP Audio Codec.

A full duplex solution when two tools are in use, the DB910 allows you to send and receive audio at the same time, while guaranteeing fast and easy monitoring of the signal fed to the transmitter. Where two-way transmission is not required, DB910 may be used either as an encoder or a decoder, being fully compatible with DEVA's already widely-known hallmark IP audio codecs.

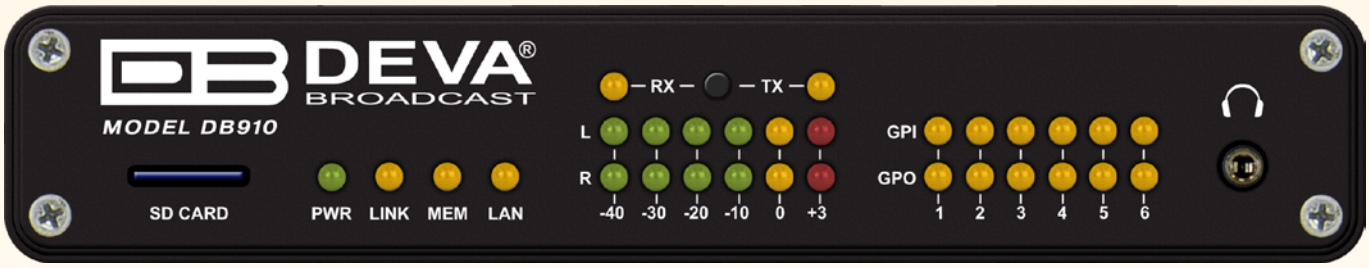
The real time audio encoding/decoding into a high quality configurable format process is uncompromisingly guaranteed by the powerful DSP processor. Supporting all the mandatory compressed audio streams and lossless, uncompressed PCM stream, the DB910 can be used for a wide range of professional audio applications: Broadcast, Internet Radio, Studio to Transmitter Link and VoIP.

Apart from its main audio source, DB910 supports several IP audio sources and a built-in MP3 Backup Audio Player in addition. With several backup audio sources incorporated, the DB910 will immediately switch between the sources when the audio is lost, and return to the main one when the audio is restored, with no user intervention. The audio content for the MP3 player is recorded on the internal SD card. The backup files can be managed remotely through the built-in FTP Server, via standard FTP client.

Combining the super compact form of the DB90 and some of the most impressive features of the renowned DB9000 line in a single product, the DB910 will meet the requirements of the most demanding broadcasters. This advanced radio gear is equipped with two-way GPIOs and RS-232 serial communication that could be used for telemetry and automation. The front panel audio level bar graphs and LED indicators of the unit allow reading the current state of the device at a glance.

Controlled through a simple and intuitive HTML5 interface and any kind of web browser, be it your PC, smart phone or tablet, the DB910 could be managed remotely or locally.

DB910 is the ultimate all-in-one solution to maintain your competitiveness, combining essential professional applications and key trends.



FEATURES

- **Analog Audio Output and Input (4 x ¼" phone jack)**
- **Digital Audio Output and Input (2 x ¼" phone jack)**
- **High Quality HE-AAC (v.1 and v.2), MPEG-1 & MPEG-3**
- **32 kHz, 44.1 and 48 kHz sample rates support**
- **Decoding of all standard bitrates and VBR as well**
- **Full Control and easy setup via a standard web browser**
- **DHCP Client automatically assigning Network Settings**
- **IP address pronunciation at startup (through the Phones)**
- **Auto backup switching in the event of an audio loss**
- **Full duplex IP audio transmission**
- **Build-in MP3 Player**
- **6 x General Purpose Inputs**
- **6 x General Purpose Outputs**
- **2 x 6 LED front panel audio level bar graphs**
- **2 x 6 GPIO & 4 x Status LEDs, Phones out**
- **UPnP for easy discovery in Local Networks**

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BROADCAST TOOL

Model DB910

SPECIFICATIONS

Operating Modes	
Two-way	Full-duplex TCP, RTP
Transmitter	Shoutcast/Icecast compatible TCP server, Icecast Source Client, RTP
Receiver	IP Audio Client, Icecast Source Server, RTP
File Player	SD Card based player

Audio Codecs	
Channels	1 or 2
Sample Rates	32 kHz, 44.1 kHz, 48 kHz
Codec	MPEG-1 Layer 3; HE-AAC (v.1 & 2); 16-bit PCM
Bitrates (Enc)	Up to 320 kbps (MPEG-1); Up to 88 kbps (HE-AAC); Up to 1536 kbps (PCM);
Bitrates (Dec)	All standard bit rates, including VBR

Audio Backup	
Source	Any of the available sources; Up to 3 configurable backups
Trigger	Audio Silence Detector
Threshold	Adjustable, -90dBFs to 0dBFs
Trigger time	Adjustable, 1s to 240s

File Player	
Storage	microSD Card
Codecs	MPEG-1 Layer 3, HE-AAC (v.1 and v.2)
File types	*.MP3, *.AAC, *.M4A, *.M3U
Playback Modes	Alphabetical ascending and descending, Shuffle, Playlist and Shuffled playlist
Remote file	Build-in FTP server

Analog Audio Input	
Connector	2 x 1/4” (6,3mm) phone jack; Shared with Digital input, software selectable
Type	Balanced
Impedance	600Ω or High Impedance, software selectable
Level (0 dBFS)	-12dBu to +18dBu, software selectable
Frequency Resp.	±0.5dB, 10Hz-20kHz
Distortion	<0.01% THD+N
Dynamic range	>100 dB

Analog Audio Output	
Connector	1/4” (6,3mm) phone jack; Shared with Digital output, Software selectable
Type	Balanced
Impedance	600Ω or High Impedance, software selectable
Level (0 dBFS)	-12dBu to +18dBu, Software selectable
Frequency Resp.	±0.5dB, 10Hz-20kHz
Distortion	<0.01% THD+N
Dynamic range	>100 dB

Digital Audio Input	
Type	AES/EBU (IEC 60958)
Connector	1/4” (6,3mm) phone jack; Shared with Left Analog input, software selectable
Sample rate	32kHz, 44.1kHz and 48 kHz

Digital Audio Output	
Connectors	1/4” (6,3mm) phone jack; Shared with Left Analog output, software selectable
Type	AES/EBU (IEC 60958)
Sample rate	32kHz, 44.1kHz and 48 kHz

GPIO	
Type	6 x GPI; 3.3V TTL logic 6 x GPO; Open-collector; 20V/100mA 1 x RS-232
Connector	DB-15
GPIO	Transparent 2-way channel
RS-232	Transparent 2-way channel or TCP/IP to RS-232 Redirector; 9600 to 115200 bps

Front Panel	
Level Indicators	2 x 6 LED bar graphs
GPIO Indicators	2 x 6 LEDs
Status Indicators	4 LEDs
Headphones	1/8” (3.5mm) phones jack
SD Card	microSD card slot

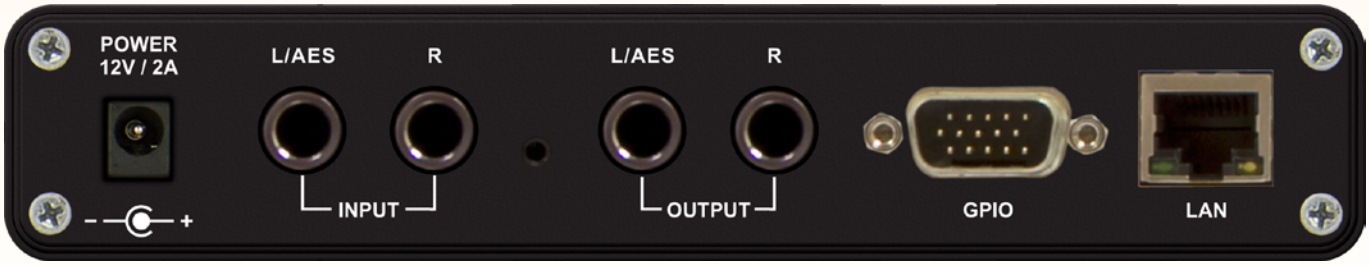
Remote Control	
Web interface	Built-in web server with HTML5 interface
SNMP	SNMP 2c

Network	
Connector	RJ-45
Type	10/100Mbps Ethernet
Discovery	UPnP Support

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

Power requirements	
Connector	Power Jack 5.5mm
Power supply	12V DC, 1A

Size and Weight	
Dimensions (W;H;D)	170 x 35 x 167 mm
Shipping Weight	270 x 54 x 230 mm / 0.9kg



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