Model DB90

IP AUDIO ENCODER / DECODER

DB90-TX is an integrated audio converter that converts audio signal into a high quality compressed audio stream. The signal can be compressed by HE-AAC, MPEG-1 Layer 3 encoder. DB90-TX also supports uncompressed PCM stream in order to ensure audio transmission without quality loss. Compression is performed in real time, and the output signal is transmitted directly by IP-based networks. DB90-TX can work with both analog and digital audio signal. No matter how sophisticated, DB90-TX is located in a small and compact housing. All this allows you to quickly and painlessly integrate existing audio systems to the Internet.

DB90-RX is an integrated client for IP transmitted digital audio signal. It is a device designed to support HE-AAC and MPEG-1 Layer 3 compressed audio streams and PCM uncompressed stream for audio transmission without quality loss. Decoding takes place in real time by a powerful DSP processor and the output signal is both in digital and analog form. No matter how sophisticated, DB90-RX is located in a small and compact housing. All this allows you to quickly and painlessly integrate existing audio systems to the Internet.

Developed with the thought of easiness of use, DB90 can be managed through a standard Web browser, PC, PDA or other device, making it the best choice for professional and consumer use.



APPLICATION:

- Audio transmission over IP-based networks
- Point-to-Point Audio Transfer
- Suitable for professional and consumer use

FEATURES:

- High Quality HE-AAC (v.1 and v.2), MPEG-1 and MPEG-3 Decoding
- 32 kHz, 44.1 and 48 kHz sample rates support
- Support of all standard bitrates and VBR as well
- 6 LEDs and Phones output for quick diagnostics
- IP address pronunciation at startup (through the headphones)
- DHCP Client automatically assigning Network Settings
- Full Control and easy setup via a standard web browser
- UPnP for easy discovery in Local Networks
- Shoutcast / Icecast compatible TCP/IP stream
- Analog Audio Input (2 x RCA connectors)
- Digital Audio Input (RCA Connector)
- RJ-45 Ethernet Connector
- Auto switching to another server in the event of a connection loss
- Up to 10 simultaneously connected clients



SPECIFICATIONS

Sample rate

DB90-RX		
Audio decoder		
Decoder	HE-AAC (v.1 & 2), MPEG-1 Layer 3 or PCM	
Sample rates	32, 44.1 and 48 kHz	
Bit Rates	All standard bitrates, including VBR	

	Analog audio output
Connector	2 x RCA, stereo
Туре	Unbalanced
Level	+9dBu @ 0dBFs
Sample rate	Same as the source stream
Dynamic range	101 dB

	Digital audio output
Connector	RCA
Туре	S/PDIF (IEC 60958)
Sample rate	48 kHz
Resampling	Thru build-in sample rate converter

Stream client		
Туре	Shoutcast/Icecast compatible TCP/IP client	
Codec	AAC, MP3, PCM	
Servers	Up to 3 with auto-switch on failure	

RTP Receiver		
Type	Unicast RTP/UDP compatible receiver	
Codec	AAC, MP3	
Count	1	



DB90-TX		
	Audio codec	
Codec	HE-AAC (v.1 & 2), MPEG-1 Layer 3 or PCM	
Sample rates	32, 44.1 and 48 kHz	
Channels	1 or 2	
Bitrate(kbps)	56 (HE-AAC), 320 (MPEG-1), 3072 (PCM)	
MPEG-1 Layer 3 specific		

WIFEG-1 Layer 3 Specific		
Encoding mode	Mono & Stereo, Joint Stereo or Dual Channel	
Emphasis 50µs, CCITT J.17 or none		
PCM codec		

Channels	1 or 2, Up to 3072 kbps
	Analog audio input
Connector	2 x RCA, stereo
Туре	Unbalanced
Level	+6dBu (max. +8dBu)

Dynamic range	102 dB
	Digital audio input
Connector	RCA
Туре	S/PDIF (IEC 60958)

96 kHz; Build-in SRC for lower sample rates

Resampling	ampling Thru build-in sample rate converter	
	Streaming server	
Туре	Shoutcast / Icecast compatible TCP/IP stream	
Codec	AAC, MP3, PCM	
Clients	Limit Up to 10 simultaneous clients	

	Icecast Source Client	
Туре	Icecast Source Client	
Codec	AAC, MP3, PCM	
Count	1	

	RTP Sender	
Туре	Unicast RTP Sender	
Codec	AAC, MP3	
Count	1	

		CON	COMMON	
	Phones audio output			
Connector	3.5mm jack, stereo		Temp	
Type	Headphones		Altitu	

User interface		
Indicators	6 LEDs on front panel	
Web interface	Full control and status information	

Network	
Connector	Ethernet - RJ-45
Device discovery	UPnP support

Operating conditions	
Temperature, Humidity	10°C - 45°C, < 75%, non-condensing
Altitude	0 to 5000m above sea level

	Power requirements	
Connector	Power Jack 6,3mm	
Power supply	12V DC, 1A	

Size and weight		
4,17" x 1,3" x 5" (106 x 33 x 128 mm)		
0,44 lbs (0,2 kg)		

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

