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

Model DB90

SPECIFICATIONS

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
Type	Unbalanced
Level	+9dBu @ 0dBFs
Sample rate	Same as the source stream
Dynamic range	101 dB

Digital audio output

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

Stream client

Type	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

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
Type	Unbalanced
Level	+6dBu (max. +8dBu)
Sample rate	96 kHz; Build-in SRC for lower sample rates
Dynamic range	102 dB

Digital audio input

Connector	RCA
Type	S/PDIF (IEC 60958)
Resampling	Thru build-in sample rate converter

Streaming server

Type	Shoutcast / Icecast compatible TCP/IP stream
Codec	AAC, MP3, PCM
Clients	Limit Up to 10 simultaneous clients

Icecast Source Client

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

RTP Sender

Type	Unicast RTP Sender
Codec	AAC, MP3
Count	1

COMMON

Phones audio output

Connector	3.5mm jack, stereo
Type	Headphones

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	10°C - 45°C
Humidity	< 75%, non-condensing

Power requirements

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

Size and weight

Dimension (W x H x D)	4,17" x 1,3" x 5" (106 x 33 x 128 mm)
Weight	0,44 lbs (0,2 kg)

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