**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)
- **Sample rate**: 48 kHz
- **Resampling**: Thru build-in sample rate converter

**Streaming server**
- **Type**: Unicast RTP/UDP compatible receiver
- **Codec**: AAC, MP3
- **Count**: 1

**Icecast Source Client**
- **Type**: Icecast Source Client
- **Codec**: AAC, MP3
- **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)

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

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