

Quick User Guide

DB9000-TX

Professional IP Audio Encoder

→ BEFORE YOU USE THIS PRODUCT

In order to be able to enjoy all the benefits of owning your new DEVA product, please verify first that the latest software and firmware release were installed.

Visit <u>www.devabroadcast.com/downloads</u> for the most recent software and firmware downloads, prior the installation.



This Quick user guide will make the installation of DB9000-TX quick and easy. Applying these principles, you can simplify the process and save yourself extra time and effort. For more information about the Safety precautions and the Operating environment recommendations please refer to the User Manual.

STEP 1 Connection

The encoder has to be connected to the local network or Internet by cable with RJ-45 connector.

As only one input at a time can be managed by the encoder, please select the preferred signal source input - either analog or digital one:

- For **Analog audio** use a cable that ends with two standard XLR jacks to connect the analog signal source to the analog audio inputs of DB9000-TX.
- For Digital audio use a cable that ends with standard XLR jacks to connect the AES/EBU signal source to the digital audio input of DB9000-TX.
 - Connect the device to the AC power.

NOTE: For the RS-232 COM PORT use a standard DB-9 cable to connect DB9000-TX to any RS-232 compatible equipment.

STEP 2 Configuration

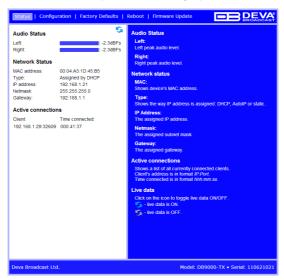
DB9000-TX is controlled trough a build in WEB Server and a standard web browser can be used to monitor its status or to make some adjustments.

To operate the device you need to know its IP Address. In case you are not aware of it, you can hear it through the headphones when you turn on the the device. Alternatively, use the Network discovery feature at Local networks (for reference see Step 8).

STEP 3 WEB Interface

Open a WEB Browser and enter the device IP Address in the browser's address field, them press Enter. The web interface will be displayed Current status information will be displayed comprising: Audio Status; Network Status; Active connections Status.

For further reference see the detailed explanation on the right part of the screen.



A username and password may be requested if the Access Control is turned on and a page other than STATUS is selected. Default values are *user* and *pass*.



General Network Settings

If you plan to use static settings please disable the DHCP and fill in the information requested - IP Address, Netmask, Gateway, Primary and Secondary DNS. Otherwise, enable the DHCP.

Web Server Settings

In order to enhance the security of DB9000-TX you can set new Username and Password. In case a dialog box appear, fill in the NEW username and password requested.

NOTE: If username and password fields are left blank, **NO** security is used.

SNMP Settings

Press the **Download button** to download the latest available DB9000-TX SNMP MIB file. Then **specify** Agent ID, Agent Port, Red/Write Communities, Manager IP and Manager Port.

Agent ID is used to identify the device among others when a SNMP notification is send. Agent - enables/disables SNMP Agent.

NOTE: The MIB file may vary from one firmware revision to another.

Downloading this file from the device guarantees that you have the latest MIB file.

STEP 5

IP Audio Configuration

Audio Settings

Choose the preferred audio signal source. Assign Encoder +Sample rate and the desired signal quality. The combination of these parameters will define the required bandwidth of your Internet connection.

NOTE: PCM will improve the quality, but higher Network bandwidth will be required consequently.

Stream Settings

Preferably change the name of the device. Later on it will be used as a title name on all WEB pages. Customizing the name will make DB9000-TX more recognizable. Insert the TCP port in the Port field AFTERWARDS.

If you decide to use the Stream Server you should make adjustments to the Port and the maximum connections which will be supported.

NOTE: For more information refer to the help section on the right part of the screen, containing brief information about each of the fields. For field description display, point the mouse cursor on the fields on the right.

RTP Audio Player

The RTP Settings require Decoders' Server Address and Port to be entered.

Icecast Receiver

Decoder IP Address and Port should be filled in.

The username and password are used to secure the connection. Make sure to enter the same information on both sides of the connection.

NOTE: The selected encoder must match the settings of the decoders on the other side of the connection.



Step 5. IP Audio Configuration

Network IP Aud	
Audio Settings	
Input:	Analog
A/D amplifier gain:	0
Channels:	2
Encoder + Sample rate:	HE-AAC v2 / 44.1 kHz
Quality:	6 Excellent
Stereo mode:	Stereo
CRC:	ON -
Emphasis:	None
Stream Settings	
Name:	DB9000-TX
Port:	2100
Pre-buffer:	Disabled
Max connections:	2
RTP Settings	
Address:	
Port:	5004
Icecast Settings	
Address:	
Port:	5555
Username:	source
Password:	pass
	Save

Step 6. COM Port Configuration

Status Cor	nfiguration Factory De	fault
Network IP A	udio COM Port	
RS-232 Settin	ıgs	
Baudrate:	9600	·
Ethernet to R	S-232 Redirector	
Port:	8001	
Password:		
	Save	1

COM Port Configuration

DB9000-TX acts as Ethernet to an RS-232 redirector. You can connect any RS-232 compatible equipment to DB9000-TX and to communicate with it over the Internet. A special software (Virtual COM Port to Ethernet Tool) need to be installed on your PC in order for the COM Port configuration to take place. Enter a Baudrate and configure the external equipment to the same baud rate, specify Port and Password next.

The password is the first symbols your software must send to authenticate itself to the Redirector. If left blank, NO security is used. Default value is pass.

STEP 7

Factory Defaults, Reboot, Firmware update

The Factory Defaults page



To restore DB9000-TX to its Factory Defaults you should first press the Restore button. A new window will appear: confirm that you want to restore factory defaults and wait for the process to complete.

All settings will be restored to their factory defaults except for Network and WEB server Settings which remain unchanged. On completion of the process the settings should have the proper default values.

Hardware Reset

This process will fully restore DB9000-TX to its Factory Defaults, including the Network settings. To start a Hardware Reset, disconnect the power supply cable from the unit. Then locate the RESET button on Rear panel, press and hold it. Afterwards, connect the power supply cable to the unit and keep the RESET button held until the PWR led starts blinking. Release the RESET button and wait for DB9000-TX to reboot with the factory default settings.

Rebooting



To start Rebooting of DB9000-TX press the Reboot button. A dialog warning window will appear. Confirm that you want to reboot the device and wait for the process to complete.

Firmware Update



To update the device firmware, please select the new firmware file. Press the Upload button. A dialog window will appear. Confirm firmware update and wait for the process to complete.

STEP 8

Network discovery for Windows 7

- Open Advanced sharing settings by clicking the Start button, and then on "Control Panel". In the search box, type "network", click "Network and Sharing Center", and then, in the left panel click "Change advanced sharing settings".
- 2. Select your current network profile.
- 3. Click **Turn on network discovery**, and then click Save changes. If you're prompted for an administrator password or confirmation, type the password or provide confirmation.
- To access the device open a new Explorer bar and click on Network. If you have successfully enabled
 the network discovery option, the device will be displayed. A double click on DB9000-TX will open a
 new WEB browser window.

NOTE: If you have already enabled this function on your computer just open a new Explorer bar and click on **Network**. The device must be displayed. If not, follow the instructions from Step 8.

Enjoy the work with DB9000-TX - a product of superb quality and functionality. For detailed explanations concerning the device refer to its complete manual.