

# QUICK START GUIDE

## Torpedo™ DVB-S/S2 or DVB-T/T2 to IP Gateway Appliance

This Quick Start Guide summarizes the basic steps required to install and configure the Torpedo DVB-S/S2 or DVB-T/T2 to IP Gateway Appliance (single chassis, as shown below\*) to stream digital broadcasts onto an IP network. Please refer to the User's Guide or the online help (available from the Web Interface) for detailed information.



\* The color of your Torpedo may be different from those pictured above.

### Installing the Torpedo

1. Unpack the box and visually inspect the package contents for any evidence of shipping damage. [See Important Notice for list of contents.]
2. Install the Torpedo as a desktop unit on a flat, well-ventilated surface.
3. Connect the power cable.

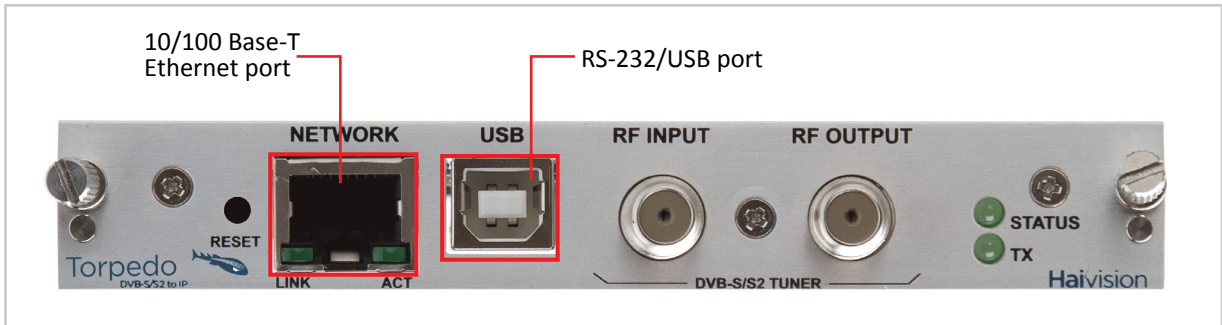


**CAUTION** Always use the AC power cord and power supply provided with the unit. Connect the power supply *first* to the chassis and then to the AC source.

Make sure the connector is properly inserted and locked to avoid intermittent power problems.

## Connecting the Torpedo to the Network

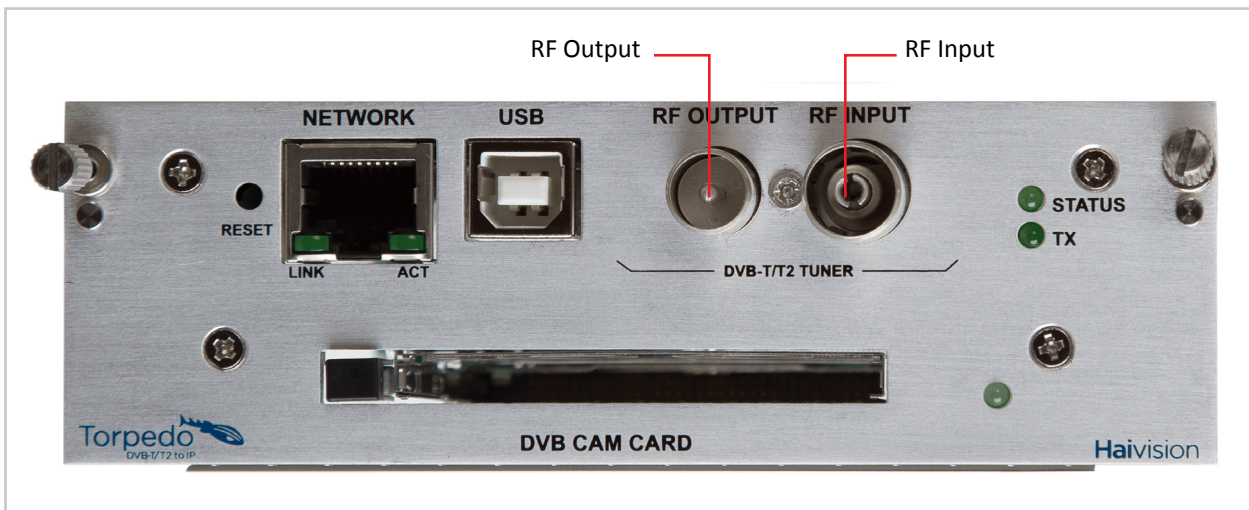
1. Connect the Torpedo's Ethernet port to the IP network using an Ethernet UTP cable (Type Cat 5 or higher) (DVB-S/S2 shown in following example).



To connect the serial interface (where applicable), please refer to the User's Guide.

## Connecting RF Input to the Torpedo

1. Connect the input cable from the DVB antenna or satellite dish to the Torpedo's RF Input, using the appropriate connector(s).
  - Torpedo DVB-T/T2: For RF terrestrial (DVB-T/T2) signals, use a 75 ohm IEC aerial connector (DVB-T/T2CAM example shown below).
  - Torpedo DVB-S/S2: For SD and HD satellite (DVB-S and DVB-S2) signals, use a 75 ohm Type F Female connector.



**NOTE** With the DVB-T/T2 Torpedo, it is possible to cascade the RF Input to other Torpedoes. To do so, connect the RF Output of the first Torpedo to the RF Input of the subsequent Torpedo.

However, signal integrity and quality when cascading is limited. Each time you cascade the RF Input from one Torpedo to the other, there is a loss in signal strength. Therefore, you cannot cascade indefinitely. (The loss is related to the original input signal.)

## Accessing the Torpedo

1. Power on the Torpedo.
2. The Torpedo comes pre-configured with the following default settings:

IP Address	Subnet Mask	Gateway	Username	Password
10.5.1.2	255.255.0.0	10.5.0.1	admin	manager

3. Open a Web browser, type the IP Address for the Torpedo into the URL address bar, and press Enter.
4. Log in to the Torpedo Web Interface, using the default username and password.

## Configuring the LNB and DiSEqC settings (Dish Setup, DVB-S/S2 only)

**i** **NOTE** There is no LNB configuration on DVB-T/T2 systems, so Dish Setup is not required.

1. Click **SYSTEM** from the main menu and then click **DISH SETUP** from the sidebar menu.

The Dish Setup page opens, as shown in the following example.

2. Specify the Low Noise Block (LNB) settings, as required for your system.
3. If your RF network contains DiSEqC (Digital Satellite Equipment Control) switches, it may be necessary to set the switches here to configure the RF path, i.e., to specify which RF source reaches the Torpedo.

- To save your changes, click **Save Changes**.

**i** **NOTE** A service scan is required when the Torpedo is first installed. A service scan updates the list of services and multiplexes that the unit has stored. It can take several minutes and while underway, no services will be streamed. To do so, follow the steps in one of the following two sections (depending on whether you are using the Torpedo DVB-S/S2 or DVB-T/T2).

## Starting a Service Scan (DVB-S/S2)

- Click **SYSTEM** from the main menu and then click **SCAN SETUP**.

The Scan Setup page opens (as shown in the following example). From here, you can start a service scan and set the parameters used for scanning.

- To enable or disable Automatic scanning, check or uncheck the Automatic checkbox.
- When scanning in Automatic mode, you only need to select the satellite Orbital position.

-OR-

If Automatic scanning is disabled, you must provide the following information:

- Frequency, Symbol rate and Polarisation for a known transponder.
- Standard (i.e., the type of signal, either DVB-S or DVB-S2).

- To save your changes and start the service scan, click **Save and start scan**.

## Starting a Service Scan (DVB-T/T2)

1. Click **SYSTEM** from the main menu and then click **SCAN SETUP**.

The Scan Setup page opens (as shown in the following example). From here, you can start a service scan and set the parameters used for scanning.

The screenshot shows the Haivision Torpedo web interface. The top navigation bar includes 'System', 'Network', 'Administration', 'Help', and 'Logout'. The left sidebar has a menu with 'Service List', 'Multiplex List', 'Conditional Access', 'Scan Setup' (highlighted), 'Service Advert.', and 'Advanced'. The main content area is the 'Scan Setup' form. It has a 'Service List' button in the top right corner. The form contains the following sections:

- Automatic:** A checked checkbox with the text 'Check this to use scanning parameters based on the selected country below.'
- Country:** A dropdown menu showing 'United Kingdom' with the text 'Select your country to automatically use the correct scanning parameters.'
- Frequency bands:** A table with columns 'Start (Hz)', 'End (Hz)', and 'Bandwidth'. The values are '474000000', '850000000', and '8MHz' respectively. Below the table are 'Add' and 'Remove' buttons and the text 'Custom single or band frequencies can be entered here. These will be used if the automatic country based options are not used.'
- Scan dwell period:** A text input field containing '30' with the text 'Set the maximum number of seconds to wait for network and service information at each tuned frequency.'
- Scan logging:** An unchecked checkbox with the text 'Check this to record detailed information about service scans in the event log.'

At the bottom of the form are two buttons: 'Save changes' and 'Save and start scan'.

2. To enable or disable Automatic scanning, check or uncheck the Automatic checkbox.
3. When scanning in Automatic mode, you only need to select the country.

-or-

If Automatic scanning is disabled, you must enter the Start and End frequencies and select the Bandwidth.

4. To save your changes and start the service scan, click **Save and start scan**.

### Configuring the Channels for a Multiplex

- Once the scan is complete, click **SYSTEM** from the main menu and then click **MULTIPLEX LIST**.

The Multiplex List (as shown in the following example) displays information on the currently tuned multiplex, as well as the other available multiplexes for this Torpedo.

The screenshot shows the 'Multiplex List' interface. On the left is a navigation menu with options: Service List, Multiplex List (selected), Dish Setup, Scan Setup, Service Advert., and Advanced. The main content area is titled 'Currently tuned multiplex' and shows a table with columns: Network name, Frequency, Standard, SNR, Services, RF status, and Data rate. The current multiplex is 'Globecast' at 12.1480 GHz H, DVB-S, 0 dB SNR, 20 services, with 'No signal' RF status and 0.00 kbit/s data rate. Below this is a section for 'Other available multiplexes' with a table listing various networks like Globecast, RRSat Global Communications Network, STN Network, etc., with their respective frequencies, standards, SNR, and service counts.

- To view and configure the channels for a multiplex, click the **Frequency** link for the multiplex.
- On the Multiplex Information page (shown following), you can enable up to 15 individual channels (from a single RF multiplex) for the Torpedo to stream.

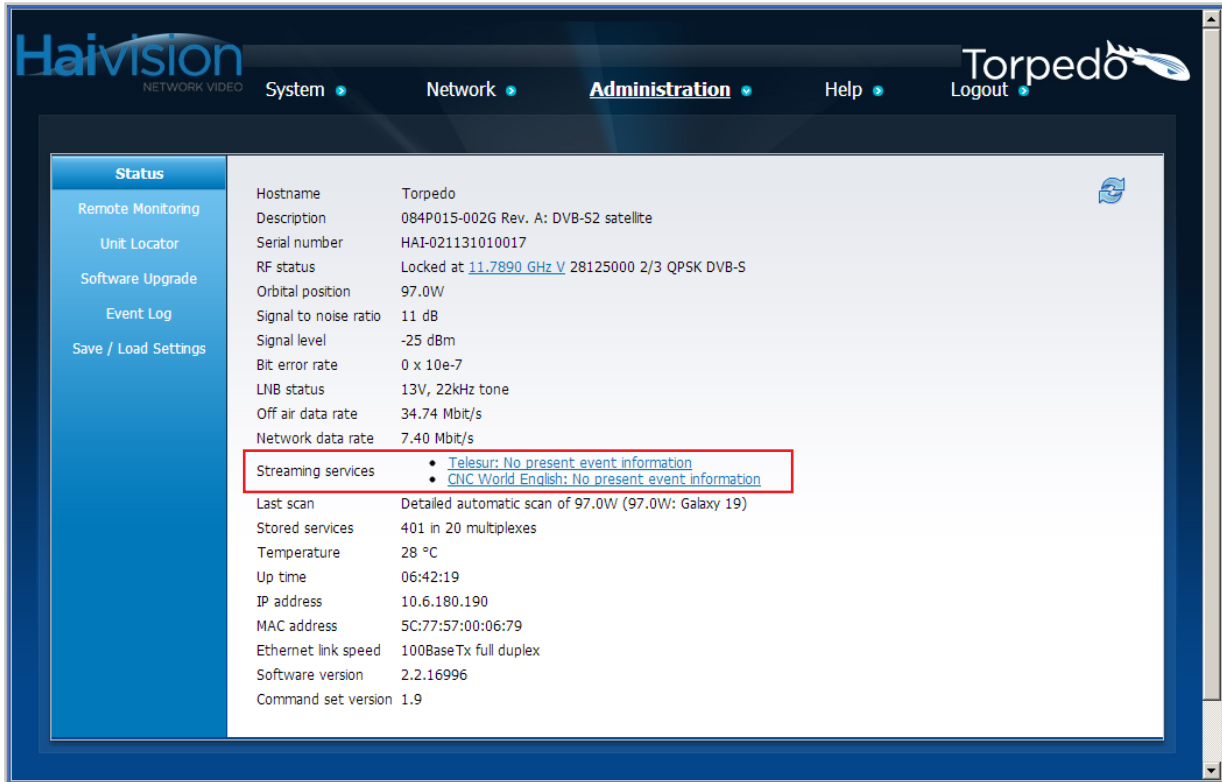
The screenshot shows the 'Multiplex information' page. The left navigation menu is the same as in the previous screenshot. The main content area is titled 'Multiplex information' and includes a link for '< Previous multiplex'. Under 'Details', a table shows: Multiplex 20 of 20, Network name Globecast, Frequency 12.1480 GHz H, SNR 0 dB, Level 0 dBm, BER 0x10e-7, and Currently tuned Yes. Below this is a 'Services' section with a table listing individual channels. Each row includes an 'Enabled' checkbox, a 'Name' (e.g., Ch.300 GlobeCast 1), an 'Encrypted' status, a 'Type' (Television or Radio), and fields for 'Address', 'Port', 'TTL', 'DSCP', and 'LCN'. Channel Ch.303 'Al Jazeera English' is checked as enabled.

- For each channel, you will need to provide network information to reach the IP target desired, including IP Address, Port, TTL (Time to Live), DSCP (Differentiated Services Code Point), and optionally, LCN (Logical Channel Number).

5. You can also change the currently tuned multiplex, for example, to stream a service which is not in the currently tuned multiplex.
6. To save your changes, click **Save Changes**.

## To Validate that the Torpedo is Properly Streaming

1. Click **ADMINISTRATION** from the main menu and check that Streaming services are listed on the Status page (as shown in the following example).



## For More Information

Contact Haivision Technical Support via our Support Portal on our website at: <http://www.haivision.com/support/>

Or you may use the phone number or email address listed below:

North America: Toll Free: 1.877.224.5445  
 International: Tel: 1-514-334-5445  
 Fax: 1-514-334-0088  
 Technical Support email: [tickets@haivision.com](mailto:tickets@haivision.com)  
 Product Information email: [info@haivision.com](mailto:info@haivision.com)

You may download the firmware, Readme file, and PDF versions of the User's Guide and Quick Start Guide through our Download Center: at <http://www.haivision.com/download-center/>