TELESTAR®

DIGIBIT TWIN

User manual

DE Zur Schonung von Ressourcen stellen wir Anleitungen in anderen Sprachen nur als Download bereit. QR-Code scannen für mehrsprachige PDF-Anleitung.

EN To conserve resources, manuals in other languages are available for download only. Scan the QR code for the multilingual PDF manual.

FR Afin de préserver les ressources, les manuels dans d'autres langues sont disponibles uniquement en téléchargement. Scannez le code QR pour obtenir le manuel PDF multilingue.

IT Per preservare le risorse, i manuali in altre lingue sono disponibili solo come download. Scansionare il codice QR per il manuale PDF multilingue.

NL Om hulpbronnen te sparen, zijn handleidingen in andere talen alleen als download beschikbaar. Scan de QR-code voor de meertalige PDF-handleiding.

CZ Abychom šetřili zdroje, jsou návody v jiných jazycích k dispozici pouze ke stažení. Naskenujte QR kód pro vícejazyčný PDF návod.

SK Na ochranu zdrojov sú návody v iných jazykoch k dispozícii iba na stiahnutie. Naskenujte QR kód pre viacjazyčný PDF návod.

PL W trosce o zasoby instrukcje w innych językach są dostępne wyłącznie do pobrania. Zeskanuj kod QR, aby pobrać wielojęzyczną instrukcję PDF.

Table of contents

1. Safety instructions

General safety
Read these instructions before using the appliance for the first time and keep them in a safe place. Do not leave the appliance unattended near children and only use it as intended.

Power supply
Only use the mains adapter supplied or recommended. Avoid multiple sockets and extension cables to prevent overloading. Disconnect the mains plug when not in use for long periods or during a thunderstorm.

Operation & environment
Place the router on a stable, dry and well-ventilated surface. Do not expose the device to extreme temperatures or direct sunlight and keep it away from moisture, water sources and naked flames.

Wireless connections & interference
WLAN and SAT-IP signals can be impaired by obstacles or other electronic devices. Place the Internet router in an open location to ensure optimum signal strength. Do not use the device near medical devices if interference occurs.

Cleaning & maintenance
Disconnect the device from the power supply and unplug all cables before cleaning. Use a dry, soft cloth and do not use cleaning agents or water. Do not open the device yourself, only have repairs carried out by specialised personnel.

Disposal
Dispose of the appliance in accordance with local regulations for waste electrical and electronic equipment. Before disposal, remove any batteries or rechargeable batteries and take them to a suitable collection point.

2. Delivery

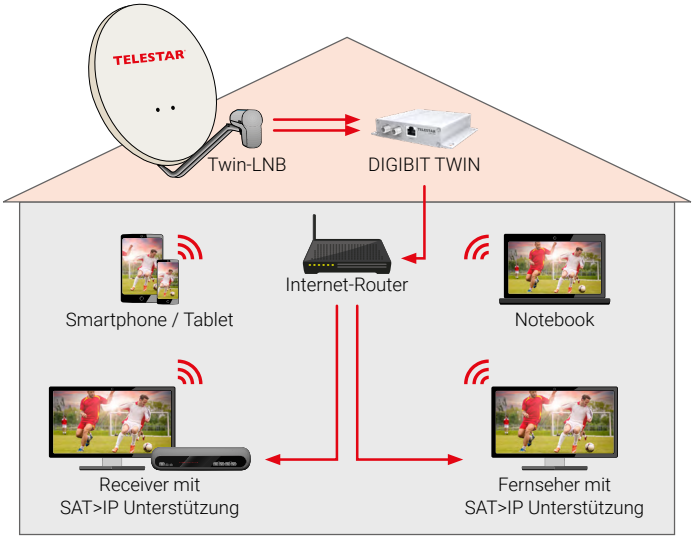
- TELESTAR DIGIBIT TWIN
- External power supply unit
- User manual

3. Introduction

The principle of the transmitter is very simple: connected to a twin or quattro switch LNB or a multi-switch, the DIGIBIT TWIN converts the satellite signals into IP technology and then makes them available for connection to a network router for feeding into a home network.

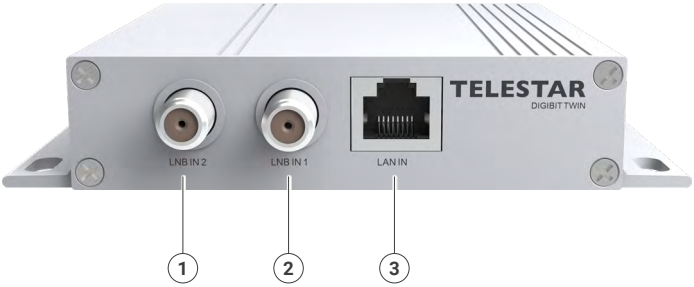
The Sat>IP technology enables the conversion and distribution of DVB-S/S2 satellite signals into a network. This allows TV programmes to be streamed via the home network to various devices such as smart TVs, PCs, tablets or smartphones without these having to be connected directly to a satellite system.

The converted satellite signals can be distributed via LAN and/or WLAN to up to two network connections in the home and used by IPTV-capable end devices. These „clients" can be PCs, notebooks, tablet PCs, smartphones or TV sets, for example, provided they have the appropriate software or app.



4. Overview and connections

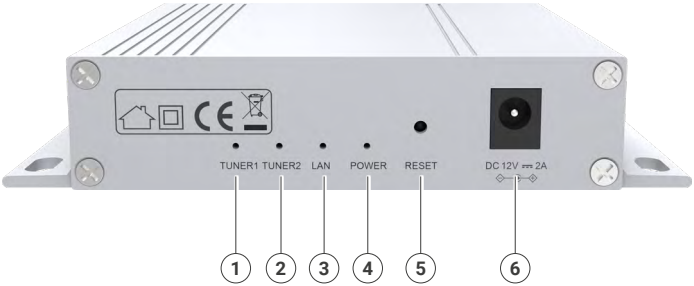
4.1 Front view



1. **LNB 2 / Tuner 2**
   Second connection from the LNB.
2. **LNB 1 / Tuner 1**
   First connection from the LNB.
3. **LAN connection**
   LAN connection to the Internet router

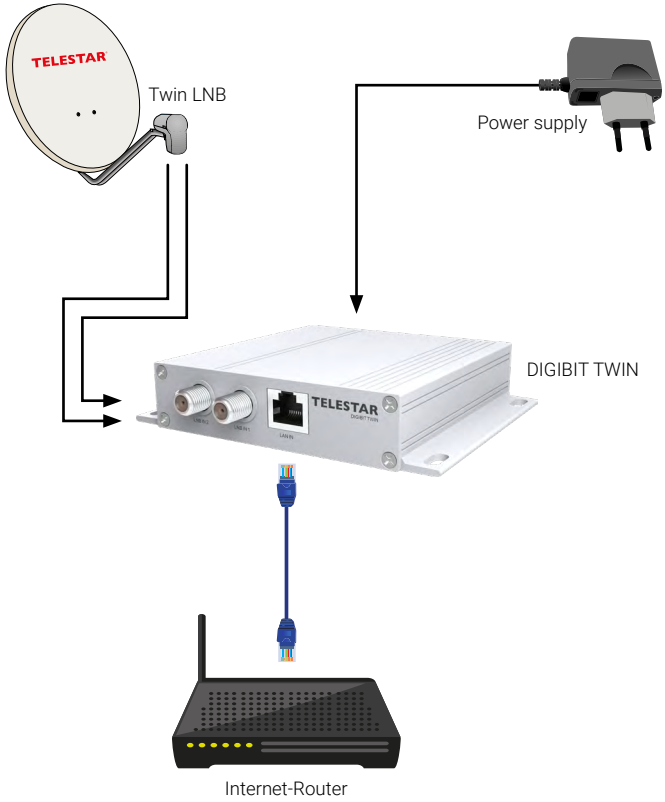
4. Overview and connections

4.1 Rear view



1. **Control LED (Tuner 1)**
   Lights up as soon as a SAT>IP device uses the Tuner 1 connection.
2. **Control LED (Tuner 2)**
   Lights up as soon as a SAT>IP device uses the Tuner 2 connection.
3. **Control LED (LAN)**
   Lights up when the LAN connection to the Internet router has been successfully established.
4. **Control LED (POWER)**
   Lights up when the power supply has been successfully established with the SAT>IP router.
5. **Reset button**
   Press the button to reset all settings of the SAT>IP router.
6. **Power supply**
   Connect the supplied mains adapter here.

5. Connecting the components



5. Connecting the components

The information given here refers to the illustration on page 10:

Antenna inputs
Connect the output(s) of an LNB or multi-switch to the DIGIBIT TWIN. If you only want to use a single device (client device) in the network with the DIGIBIT TWIN, a connection from the satellite system is sufficient. Connect this to the Tuner 1 connection. If you want to use two devices independently of each other for TV reception via the network, both LNB inputs must be connected.

Network connection
Connect the DIGIBIT TWIN to your Internet router using a network cable.

Power supply
Connect the plug-in power supply unit to the DIGIBIT TWIN and plug it into a socket.

6. Installing the SAT>IP router

These installation instructions serve as general instructions for commissioning the Sat>IP router. The instructions have been deliberately kept general, as home networks can be configured differently depending on the application. If you have any questions or uncertainties, please contact your installation company.

6.1 Requirements for accessories

To ensure that the DIGIBIT TWIN functions smoothly in the network, certain minimum requirements must be met for the accessories. Please note the following:

- Network speed (LAN): Only use DSL routers with a data throughput of at least 500 Mbit/s via LAN.
- Network speed (WLAN): To ensure trouble-free operation of the WLAN function, the data throughput of the DSL router used should be at least 300 Mbps. Otherwise, blocking and connection errors may occur, especially if several clients are connected via WLAN.
- Signal strength: The data throughput via WLAN decreases with increasing distance from the router to the end device. To maintain a stable WLAN connection over longer distances, we recommend using a WLAN repeater. Here too, the device should support a minimum speed of 300 Mbit/s.

Please note that other network functions, such as Internet access, may be impaired when using multiple clients via WLAN.

Note:
If possible, use the Sat-to-IP function via LAN. So-called Powerline or dLAN adapters (network via socket) can also be used to bridge longer distances. Please note that the data throughputs can vary greatly between different manufacturers. If in doubt, the dLAN adapter used should offer the same data throughput as your DSL router.

6. Installing the SAT>IP router

6.2 Start-up

Connect the device to your home network using a LAN cable and plug the power supply unit into a socket. The LAN LED lights up as soon as the connection is established.

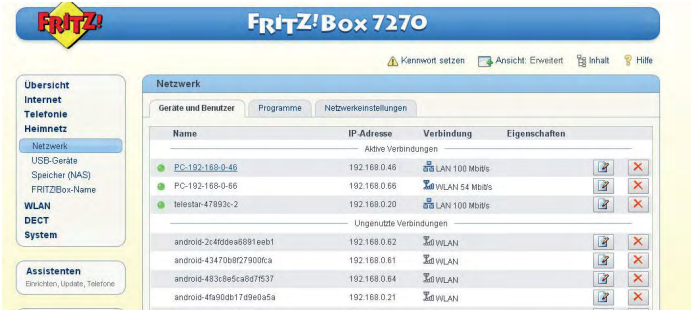
Note:
DHCP is activated in the device on delivery. This function automatically assigns the device an IP address from your connected router so that access to the configuration menu is not absolutely necessary.

If you want to make changes to the IP address or equip the device with new software, you must call up the configuration menu via the web interface.

6.2.1 Webinterface

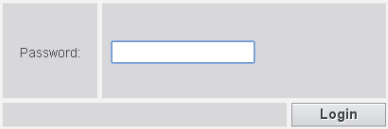
The web interface allows you to configure the DIGIBIT TWIN and can be accessed with any PC, tablet or smartphone that is in the same network as the Sat-to-IP router.

To do this, open the configuration menu of your network router (in the example of an AVM FritzBox) via a web browser. Select the item Home network. The router will show you all existing connections in the network. Select the DIGIBIT TWIN here.

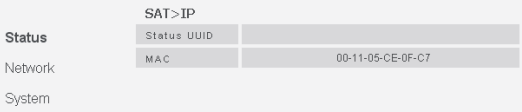


6. Installing the SAT>IP router

The web interface of the DIGIBIT TWIN now opens with a password prompt. The factory-set password is „admin".



The configuration menu of the DIGIBIT TWIN now opens.

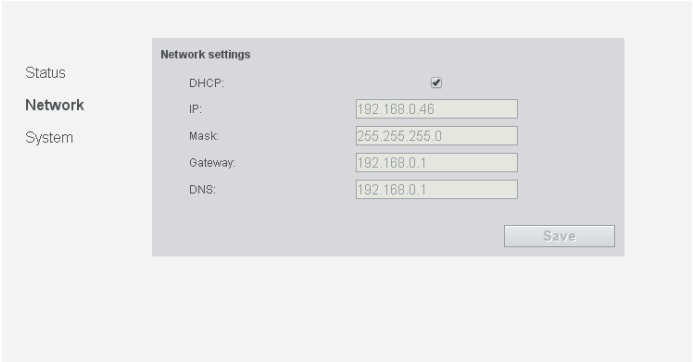


6.2.2 Status

You can see the MAC address of the device under Status.

6.2.3 Netzwork

In the factory setting, the network IP is automatically assigned by the connected router. In addition to this dynamic IP, a fixed IP address can also be set so that the DIGIBIT TWIN can also be operated in the network without a router. You can make these settings under the corresponding menu item.



Attention:
Please ensure that you enter the specific settings for your network correctly. If you are unsure, please consult your network administrator. If the device can no longer be reached via the web interface with the settings you have entered or cannot establish a connection to an end device, you can reset the device to the factory settings.

6. Installing the SAT>IP router

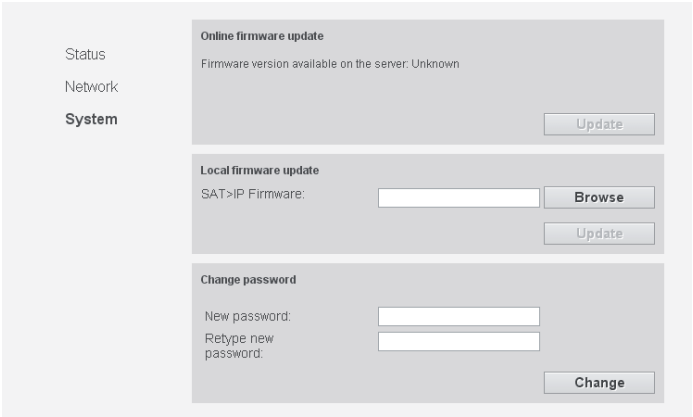
Fixed IP address
If you want to assign a fixed IP address to the device, uncheck DHCP. Enter the desired IP address and the parameters of your network:

- MASK: Subnet mask
- GATEWAY: IP address of the router
- DNS IP: Address of the DNS server

Then click on the „Save“ button.

6.2.4 System

Various functions for device maintenance and management are available under „System“.



Online firmware update (Online Firmware Update):
If new software for your device is available online, you can download it here. The „Update" button is then activated.

Local firmware update (Local Firmware Update):
You can update the device's software via your local network. If required, download the latest firmware for the device from www.telestar.de and unzip the file. Use the „Browse" field to select the xxx.bin file and then click on „Update".

Change password (Change Password):
Here you can change the factory-set password (admin) to a new password of your choice. Enter the new password twice and confirm the change by clicking on the „Change" button.

6.2.5 Resetting the device

If the device is no longer responsive or in the event of malfunctions or inadvertently incorrectly set network parameters, you can restore the factory settings of your DIGIBIT TWIN here. Attention: Individual settings will be lost!

Please proceed as follows:

- Press the reset button on the side of the device with a pointed object (e.g. a needle).
- The LAN LED goes out briefly and restarts.

The device is now reset to the factory settings.

7. Examples for clients

7.1 Hardware solutions

There are a large number of satellite receivers on the market that support the Sat>IP protocol as client devices. Customers have the option of selecting a suitable SAT>IP client that meets their individual needs.

These devices offer convenience and flexibility and can be integrated into the home network either via an Ethernet cable or a USB WLAN dongle. The connection to the TV set is usually made via HDMI.

Find out about the different models available and their functions to find the ideal SAT>IP client for your home.

7.2 Apps for iOS and Android

The EyeTV app or the SAT>IP app are suitable for mobile devices and can be downloaded from the iTunes Store (for iPhone/iPad) or the Google Play Store (for Android devices). These applications have been specially developed for operation with Sat-to-IP routers and behave in a similar way to conventional satellite receivers. They offer functions such as channel search, EPG (Electronic Programme Guide) and PVR (Personal Video Recorder) functions with timeshift.

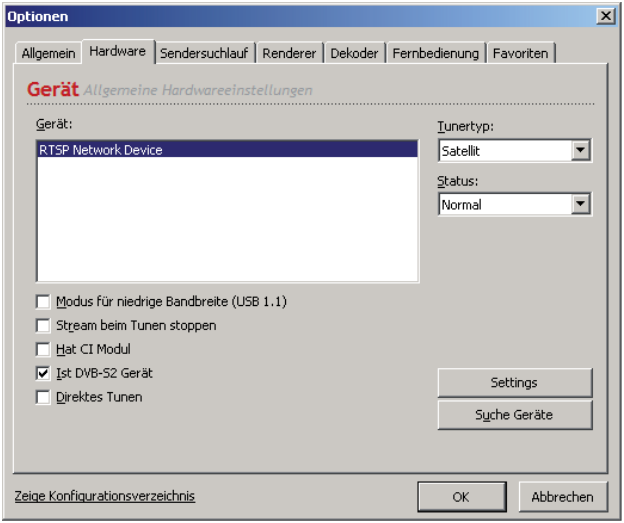
There may also be other apps on the market that offer similar functions. Therefore, find out about the options available to find the best solution for your needs.

7. Examples for clients

7.3 PC programme (DVB Viewer)

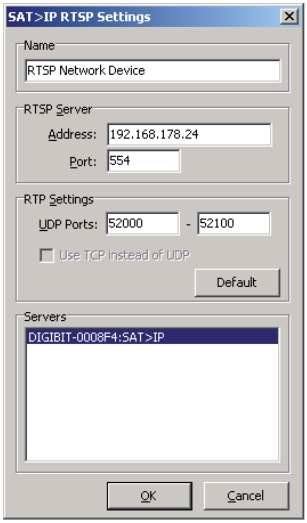
You can download the DVB Viewer programme at www.dvbviewer.com. After installing the programme, proceed as follows for the one-off setup:

1. Select Settings and then Options.
2. Click on Hardware.



7. Examples for clients

Click on Settings and select the DIGIBIT device from the server list. Confirm your selection with OK.



Exit the Options menu by pressing the OK button. The programmes can then be displayed via the software user interface.

8. Troubleshooting

Symptom	Possible causes
Which clients can be used? Are there already client devices on the market?	There are many satellite receivers on the market that support the Sat>IP protocol as client devices. Customers can select a suitable SAT>IP client that meets their needs.
Which apps work apart from the Eyetv app. Which apps are available in the App Store?	There are various applications. Please search for Sat>IP (SatIP) in the search function in the App Store or GooglePlay Store.
I can't find the Eyetv app in Google play.	If the EyeTV app is not found, your Android smartphone may not be compatible with this application.
The DIGIBIT TWIN cannot be accessed via the web interface. What causes can this have?	Check your cable connection (LAN). The IP addresses must be in the same logical network. Often the port must be specified in the address line of the web browser (e.g. 192.168.2.25:8080). Communication between the devices may be blocked by a firewall.
iPhone/iPad establishes a connection via WLAN. As soon as the Eyetv app is started is started, the browser opens with the login window of the Fritz Box.	It is probably a new FritzBox that has not yet been configured. Every browser automatically opens the login screen of the FritzBox if it has not yet been configured. To solve the problem, simply run through the FritzBox login wizard.
How many programmes can be transmitted simultaneously?	The number of programmes that can be transferred depends on the bandwidth of the IP network. A maximum of two client devices can be operated which can independently receive all satellite programmes and transponders of one or more satellite positions.
Why is my Fritz Box not recognised?	This can have various causes: Either a MAC filter is activated, a crossed cable is being used or the port is not enabled.

8. Troubleshooting

Symptom	Possible causes
How high is the traffic (load) depending on the subscriber and station?	An SD channel requires around 3-7 Mbit/s, while an HD channel requires 20-30 Mbit/s. If you calculate with a bandwidth of 35 Mbit/s per subscriber, you are on the safe side.
DVB Viewer for PC can only play radio programmes	Your computer may not have the necessary codecs to play videos. Download an up-to-date audio-video codec pack for your operating system from the Internet and install it. Television programmes should then also be displayed. You can identify missing codecs in the DVB Viewer under Settings > Options > Decoder.
The DVB Viewer does not display radio or television programmes.	The DIGIBIT must first be registered in the DVB Viewer. Open the programme and select Hardware settings under Settings > Options. Select the DIGIBIT and confirm the selection. If you still encounter problems, make sure that all the necessary audio-video codecs are installed on your computer. You can find the required codecs in the DVB Viewer under Options > Decoder.
What network speed is required?	Please only use 300 Mbit WLAN routers or 1 Gbit LAN.
Do I need an Internet connection to operate the DIGIBIT TWIN?	No, an Internet connection is not required to operate the DIGIBIT TWIN.
Can I operate the DIGIBIT TWIN with any DSL router?	In principle, the DIGIBIT TWIN can be operated with any DSL router as long as the data throughput of the router is sufficient. If a DSL router with a data throughput of 100 Mbit is used, blocking or a reduction in the number of clients may occur. DSL routers with a data throughput of 1000 Mbit (LAN) or 300 Mbit (WLAN) are recommended.

9. Specifications

Performance features
SAT>IP for two subscribers
Transmits HD and SD channels
Compatible with Twin LNB, Quattro Switch LNB and multi-switch
Simple installation with Plug & Play
Web configuration from any device in the network
Compact, robust design with multi-switch look
Reset button
Low energy consumption
Connections
1x Ethernet 10/100
2x F-socket
Power supply
100-240 V AC, 50/60 Hz, 12 V DC, 2A
Operation: max. 24 W
Standby: <0.3 W
Dimensions / Weight
128 x 25 x 117 mm (W/H/D)
250 g

Legal information

Conformity information

Telestar GmbH hereby declares that the following equipment is in conformity with the essential requirements and other relevant provisions of the Directives:

- 2014/53/EU (RED)
- 2014/35/EU (LVD)
- 2014/30/EU (EMV)
- 2011/65/EU + 2015/863/EU (RoHS)
- 1907/2006 (REACH)

TELESTAR DIGIBIT TWIN (Art.-No. 5310476)

The complete declaration of conformity is available from Telestar GmbH and can be accessed online at www.telestar.de/support/dl

CE

Disclaimer

These operating instructions have been compiled with the utmost care. Nevertheless, we accept no liability for any errors, misprints or incorrect information. We reserve the right to make changes and further technical developments. Use is at your own risk.

Legal information

Symbols and notes

Old appliances must not be disposed of with household waste. You are legally obliged to dispose of old electrical and electronic equipment at municipal collection centres. Batteries and rechargeable batteries must be removed and disposed of properly before disposal.
WEEE-Reg.-Nr.: DE49015927

The packaging of this product consists of environmentally friendly materials that can be recycled. Please dispose of packaging and filling materials in accordance with local regulations on waste separation.

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