

IT560 VPN Router**Application**

IT560 is a VPN router with server functionality and customized software that enables the secure transfer of encrypted data between controllers and building management systems. It serves as a central firewall and VPN gateway for small-sized and medium-sized locations.

The IT560 VPN router with server functionality is used for communicating with the IT554 VPN router with client functionality.



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Änderungen vorbehalten - Contents subject to change - Sous réserve de modifications - Reservado el derecho a modificación - Wijzigingen voorbehouden - Con riserva di modifiche - Innehåll som skall ändras - Změny vyhrazeny - Zmiany zastrzeżone - Возможны изменения - A változtatások jogát fenntartjuk - 保留未经通知而改动的权力

Important Information Regarding Product Safety

Safety Instructions

This data sheet contains information on installing and commissioning the product "IT560". Each person who carries out work on this product must have read and understood this data sheet. If you have any questions that are not resolved by this data sheet, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this data sheet, the protection provided will be impaired.

Applicable regulations must be observed when installing and using the device. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (Association for Electrical, Electronic & Information Technologies). If the device is used in other countries, it is the responsibility of the system installer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers due to technical training, knowledge and experience as well as knowledge of the appropriate regulations.

Legend



WARNING

Indicates a hazard of medium risk which can result in death or severe bodily injury if it is not avoided.



CAUTION

Indicates a hazard of low risk which can result in minor or medium bodily injury if it is not avoided.



NOTICE

Indicates a hazard of medium risk which can result in material damage or malfunctions if it is not avoided.



NOTE

Indicates additional information that can simplify the work with the product for you.

Notes on Disposal

For disposal, the product is considered waste from electrical and electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding or ecologically sensible. The local and currently applicable legislation must be observed.

Commissioning

Preparatory steps



NOTE

The router may only be configured by a qualified specialist. Changing the firmware and setting up an IP address within an existing network may render the computers in the network unable to establish a connection with each other.

Before performing the tasks described below, you must successfully complete the Kieback&Peter online training course "Network Technology 1" at <https://testcenter.kiebackpeter.kup>.

To install the firmware, up-to-date firmware must be available for all VPN routers. Up-to-date firmware is created with the **TechnoWay Configurator** (see the TechnoWay Configurator user manual).



NOTE

Ensure that the Internet access router is configured to support a permanent Internet connection. Otherwise you may experience interruptions in the connection.

Configuring port forwarding on the Internet access router

For the VPN server: Port 1194/UDP must be forwarded to the WAN IP of the VPN router on the Internet access router.

- ▶ To do this, contact the network administrator of the network in which the server is located.



NOTE

Make sure that none of the LAN or WAN networks conflict with any of the client WAN networks distributed via DHCP. This could cause connection problems between the affected peers.

Connecting the Router

- ▶ Unpack the router.
- ▶ Check the scope of delivery.

Scope of delivery:

- 1x IT560 VPN router
- 1x power supply unit including power cable

Connect:

- ▶ Connect the router to LAN port 2 of the Windows PC using a patch cable.



NOTICE

Using power supply units other than those that came in the delivery can cause damage to property. Use only the original power supply unit. The router can be damaged if another power supply unit is used.

- ▶ Connect the VPN router to the power supply.
The "Power" LED flashes during startup.
When the "Power" LED stops flashing, startup is complete.

Installing Firmware on the VPN Router

Depending on the project, there are two different ways to update the firmware:

- Initial firmware installation:
Initial installation of the Kieback&Peter firmware on a IT560 VPN router
- Updating existing firmware:
Updating IT560 VPN routers when there are changes to the network configuration

Requirements

To install the firmware, the firmware must first be created and downloaded. (See the TechnoWay Configurator quick start guide.)

- ▶ Unpack the ZIP file.

Initial firmware installation of the IT560 VPN Router

Initial firmware installation

This installation replaces the pre-installed firmware with the new firmware.

- ▶ Set the IP settings of the router to DHCP.
- ▶ Connect the computer to the "LAN 2" port on the router (See chapter "Connecting the Router On-Site", page 8.).



NOTE

The WAN port is the socket labeled "LAN 1". Do **not** use the socket labeled "DSL".

- ▶ Start the browser.
- ▶ Enter the standard DNS name of the router in the address field of the browser: "fritz.box".
- ▶ Press the ENTER key.
The logon dialog is displayed.
- ▶ Enter a password of your choosing.
Make note of this password, as you will need it later during installation.
- ▶ Switch from "Standard" view to "Expert" view:
 - ▶ Click on "View: Standard".
 - ▶ Place a checkmark next to "Activate expert view".
 - ▶ Confirm by clicking "Accept".
 The extended navigation bar appears at the left.



- ▶ Click "System".
A submenu opens.
- ▶ Click "Firmware update".
The "Firmware update" menu opens.
- ▶ Switch to the tab "Firmware file".



- ▶ Click "Save settings".
 - ▶ A dialog appears. Close this dialog by clicking "Cancel".
- ▶ Click the "Browse" button.
 - The selection dialog for the firmware file is displayed.
- ▶ In the "Server" folder, select the file named "**fb3270.image**".
- ▶ Click the button "Start update".
 - The firmware installation is carried out.
- During the installation, a window appears with the warning "The specified file does not contain any AVM firmware for this device".
- ▶ Carry out the installation by clicking the button "Continue update".
 - The firmware is transferred to the router.
 - After a few minutes, a logon window appears.
- ▶ Enter the password that you have selected at the beginning of the installation process.
 - The setup wizard appears.
- ▶ Close the wizard by clicking the "Cancel" button and confirm by clicking "OK".
 - The menu appears.
- ▶ Select the "Overview" item in the bar on the left.
 - At the bottom left, you can see the new window "Freetz".
- ▶ Click "Freetz".
 - A new tab opens in your browser (<http://fritz.box:81>) with a logon window.
- ▶ Enter the standard access data:
 - User name: *admin*
 - Password: *freetz*
- ▶ Confirm by clicking "OK".
 - The Freetz menu appears.
- ▶ Click "System" on the right in the navigation structure.
- ▶ Select "Backup & Restore".
- ▶ Click the "Browse" button.
- ▶ In the "Server" folder, select the file named "**<ID>.tar.gz**".
- ▶ Click the "Restore" button.
 - The configuration is installed.
 - The router is restarted.

After successful installation, the router restarts. The "Power" LED flashes during startup. The new settings are activated. After about two minutes, the restart is complete. When the "Power" and "LAN" LEDs stop flashing, the installation is complete.

- ▶ Wait until the "Power" LED stops flashing.
- ▶ Configure the IP settings of your computer to the LAN settings for the server router specified in the TechnoWay setup and select an available IP address.
- ▶ Check the connection to the new IP address of the router by entering the URL `http://<Server-LAN-IP>:81` in the address field of the browser.
Log on using the user name *admin* and the password from the TechnoWay setup (see the TechnoWay Configurator quick start guide).

**NOTE**

Label the router with the configuration ID and LAN IP.

Update of the IT560 VPN Router**Updating the firmware after network changes**

- ▶ Ensure that all routers have been labeled.
- ▶ Start the browser.
- ▶ Enter the URL `http://<Server-LAN-IP>:81` in the address field of the browser.
 - ▶ The qualified specialist responsible for commissioning should note the LAN IP address on the device.
- ▶ Press the ENTER key.
The firmware starts and opens the logon dialog.
- ▶ Enter the access data:
Log on using the user name *admin* and the password from the the TechnoWay setup (see TechnoWay Configurator quick start guide).
- ▶ Confirm by clicking "OK".
The Freetz menu appears.
- ▶ Click "System" on the right in the navigation structure.
- ▶ Select "Backup & Restore".
- ▶ Click the "Browse" button.
- ▶ In the "Server" folder, select the file named "*<ID>.tar.gz*".
- ▶ Click the "Restore" button.
The configuration is installed.
The router is restarted.

After successful installation, the router restarts. The "Power" LED flashes during startup. The new settings are activated. After about two minutes, the restart is complete. When the "Power" and "LAN" LEDs stop flashing, the installation is complete.

- ▶ Wait until the "Power" LED stops flashing.
- ▶ Configure the IP settings of your computer to the LAN settings for the server router specified in the TechnoWay setup and select an available IP address.
- ▶ Check the connection to the new IP address of the router by entering the URL `http://<Server-LAN-IP>:81` in the address field of the browser.
Log on using the user name *admin* and the password from the TechnoWay setup (see the TechnoWay Configurator quick start guide).

**NOTE**

Update the label on the router.

Resetting the VPN Router**Resetting the VPN router**

You cannot reset the router yourself.

- ▶ Send in the router when a reset is necessary.

Connecting the Router On-Site

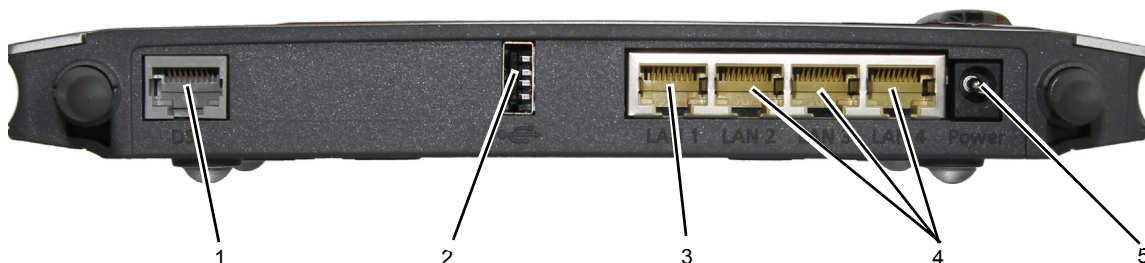
- ▶ Connect the VPN router according to the following diagrams.



NOTE

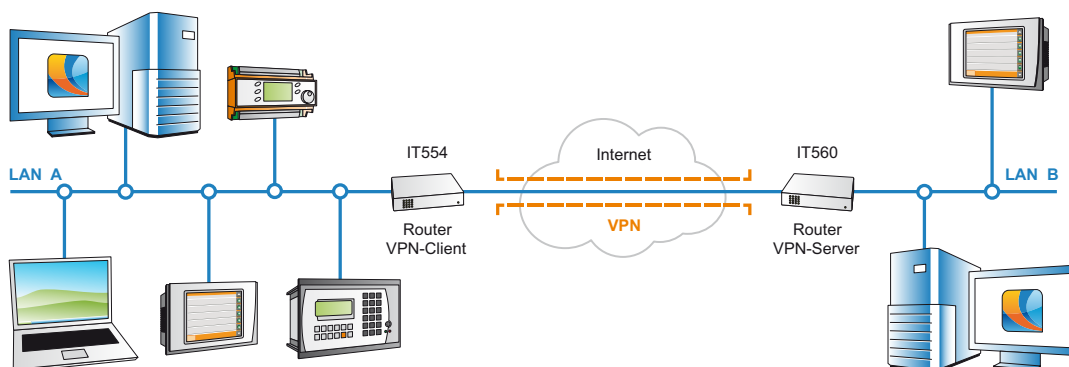
Check the connection to the new IP address of the router by entering the IP address in the address field of the browser.

Connection

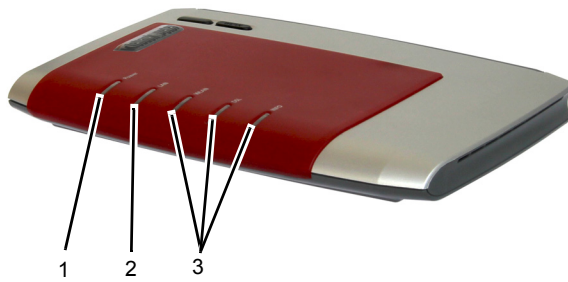


- 1 DSL modem: DO NOT use.
- 2 USB
- 3 Internet: The WAN port is used to connect the modem to the Internet.
- 4 These LAN ports are used to connect the router to PCs, BMS units or controllers.
- 5 Power: The power supply unit is connected to the power supply.

Connection Diagram



Status indicators



- 1 Power
- 2 LAN
- 3 Not used

LED	Status	Description
Power	Illuminated	■ Router is powered ■ Router is ready
	Flashing	■ Router is powered ■ Router is starting up
LAN	Illuminated	■ Connected to at least one device over the network
WLAN/ DSL/ INFO	No function	■ No function

IT560	Installation Description
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