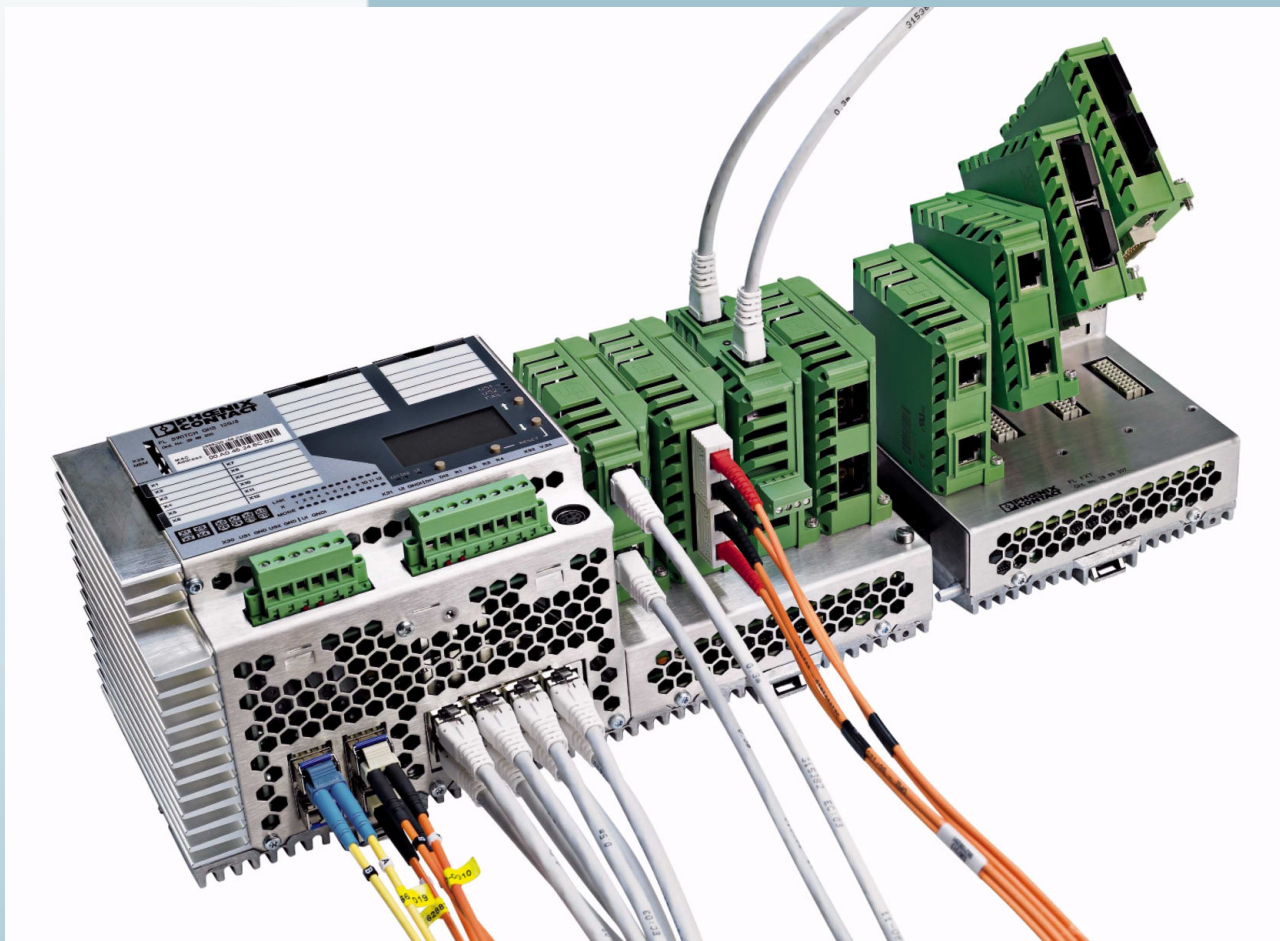




Quick Start Guide

UM QS EN FL SWITCH GHS for FL SWITCH GHS 12G/8 FL SWITCH GHS 4G/12

Gigabit Modular Switch

Order No.: -

AUTOMATION

Quick start guide

Quick start guide for access to the web-based management of the Gigabit Modular Switch

2010-03-03

Designation: UM QS EN FL SWITCH GHS

Revision: 00

Order No.: —

This user manual is valid for:

Designation	Revision	Order No.
FL SWITCH GHS		2989200
FL SWITCH GHS 4G/12		2700271
FL FXT		2989307

Please observe the following notes

In order to ensure the safe use of the product described, you have to read and understand this manual. The following notes provide information on how to use this manual.

User group of this manual

The use of products described in this manual is oriented exclusively to qualified electricians or persons instructed by them, who are familiar with applicable national standards and other regulations regarding electrical engineering and, in particular, the relevant safety concepts.

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Explanation of symbols used and signal words



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety measures that follow this symbol to avoid possible injury or death.



DANGER

This indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

This indicates a hazardous situation which, if not avoided, will result in death or serious injury.



CAUTION

This indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

The following types of messages provide information about possible property damage and general information concerning proper operation and ease-of-use.



NOTE

This symbol and the accompanying text alerts the reader to a situation which may cause damage or malfunction to the device, either hardware or software, or surrounding property.



This symbol and the accompanying text provides additional information to the reader. It is also used as a reference to other sources of information (manuals, data sheets, literature) on the subject matter, product, etc.

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1 Mounting and installing the Gigabit Modular Switch



Unless otherwise expressly stated, all information provided in this user manual always applies to both the FL SWITCH GHS 12G/8 and the FL SWITCH GHS 4G/12.

1.1 Mounting the head station



NOTE: Always switch off the supply voltage when mounting/removing the head station and extension modules.

Mount the head station on a clean DIN rail according to DIN EN 50 022 (e.g., NS 35 ... from Phoenix Contact). To avoid contact resistance only use clean, corrosion-free DIN rails. Fix the DIN rail tightly and secure it against twisting to avoid damaging the switch in applications with a high level of mechanical strain (strong vibrations or shocks). When using "NS 35..." rails with heavy loads, fix/screw the rails at a distance of about 75 mm.

Before mounting the modules, an end clamp (E/AL-NS 35, Order No. 1201662) should be mounted on the left-hand side next to the head station to stop the modules from slipping on the DIN rail. After installation of the modules, install one of the above end clamps to the right of the station.

Assembly:

1. Place the module onto the DIN rail from above (A). The upper holding keyway must be hooked onto the top edge of the rail. Push the module from the front towards the mounting surface (B).

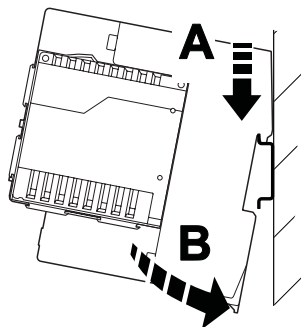


Figure 1-1 Snapping the head station onto the DIN rail

2. Once the module has been snapped on properly, check that it is fixed securely on the rail. Check whether the positive latches are facing upwards, i.e., snapped on correctly.

1.2 Mounting of the extension module



NOTE: Always switch off the supply voltage when mounting/removing the extension module.

Mounting:

1. Place the module onto the DIN rail from above (A). The upper holding keyway must be hooked onto the top edge of the rail. Push the module from the front towards the mounting surface (B). Check that the positive latches have snapped on properly.

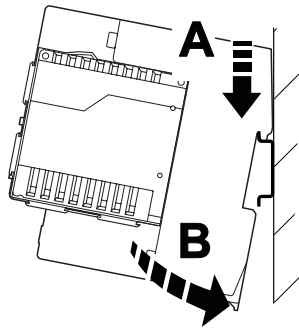


Figure 1-2 Mounting extension modules

2. Now that the extension module is snapped onto the DIN rail, push it along the DIN rail towards the head station (A), until the male connector/female connector of the modules are interlatched and the sides of the modules lie flush with one another. Secure the connection using the two screws (B).

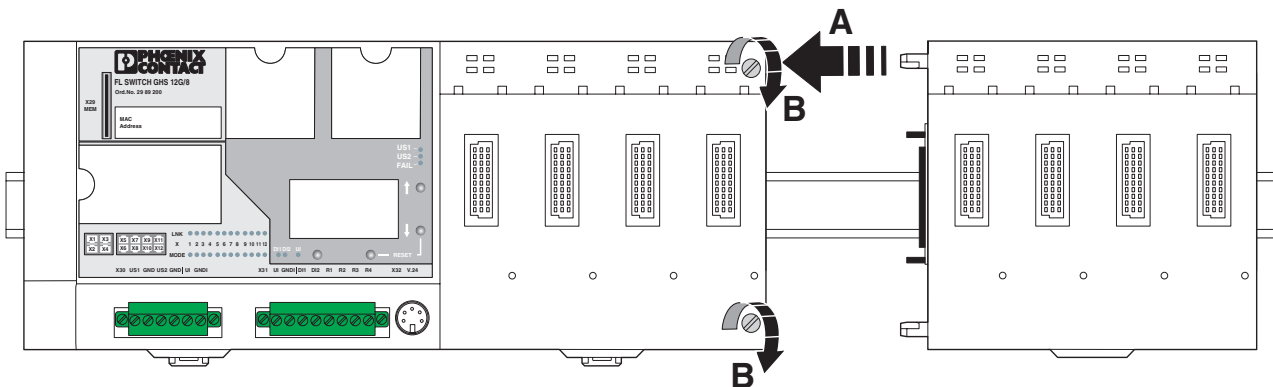


Figure 1-3 Mounting extension modules

1.3 Installing the GHS

1.3.1 Connecting the supply voltage to the GHS

24 V DC

The system is operated using a 24 V DC nominal voltage, which can be supplied from separate power supply units if required.



Please refer to the UM EN FL SWITCH GHS user manual for information on how to connect the redundant power supply, the sensor supply, and the alarm contacts.



If redundant supply voltage monitoring is active (default setting), an error is indicated if only one voltage is applied. A jumper between US1 and US2 prevents this error message. It is also possible to deactivate monitoring via the management interfaces.

1.3.1.1 Supplying the device from one voltage source

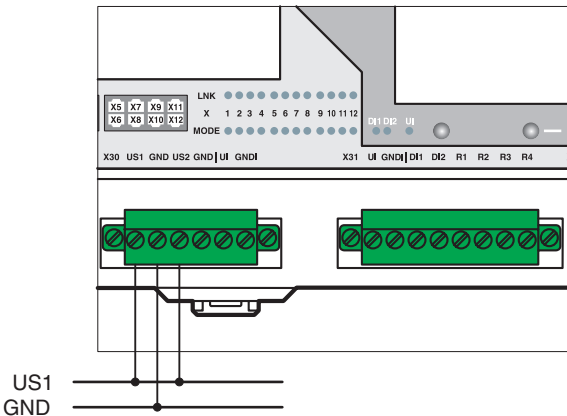


Figure 1-4 Supplying the system using one voltage source



Please refer to the UM EN FL SWITCH GHS user manual for information on how mount and connect the interface modules as well as the SFP modules.

1.4 Operability of the GHS

The device will boot automatically after you have connected the supply voltage. After a short time the display will show the following:

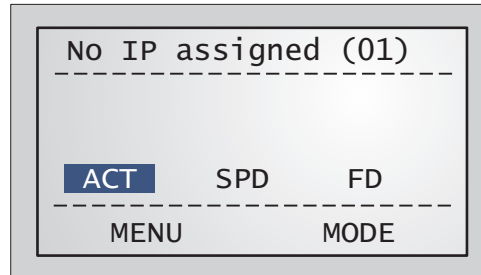


Figure 1-5 Display after termination of the boot phase in default upon delivery

When the device is in the default upon delivery, it will send BootP requests. The GHS tries to obtain IP addresses with these requests.

If your Switch displays something different, we recommend using the Smart Mode to reset it to the default state upon delivery.



Please refer to the UM EN FL SWITCH GHS user manual for information on calling and using the Smart Mode.

Before you can access the web-based management of the GHS, the device must be assigned an IP address/IP parameters (see "Assigning IP parameters" on page 1-5) or the default IP address must be activated (see "Activating the default IP address" on page 1-4).

1.5 Activating the default IP address



Please refer to the UM EN FL SWITCH GHS user manual for information on how to use the display.

After the boot phase, use the buttons/display to proceed as follows:

- Press "Menu".
- Select "IP Menu" and then press "Select".
- Select "IP Settings" and then press "Select".
- Select "Default IP" and then press "Set".

Now the Switch can be accessed with IP address: **192.168.0.100**. You may have to adapt your PC (see "Making contact between the GHS and PC for initial configuration" on page 1-7).



Please observe the following:

- The selection of the default IP is not saved retentively. Save the desired configuration via the management interfaces.
- Make sure that there is only one device with the IP 192.168.0.100 in your network.

1.6 Assigning IP parameters

The allocation of valid IP parameters is vital to the management function of the switch.



If the switch has not been assigned valid IP parameters, "No IP assigned 01" will appear in the display.

1.6.1 Assigning IP parameters with IPAssign

IPAssign is a free tool that does not require installation, but can be used to assign IP parameters very easily using BootP. This tool can be found on the included CD or at www.phoenixcontact.com.

Procedure

- Connect the switch to your PC and start IPAssign. The tool then displays the devices that are sending BootP requests to assign an IP.

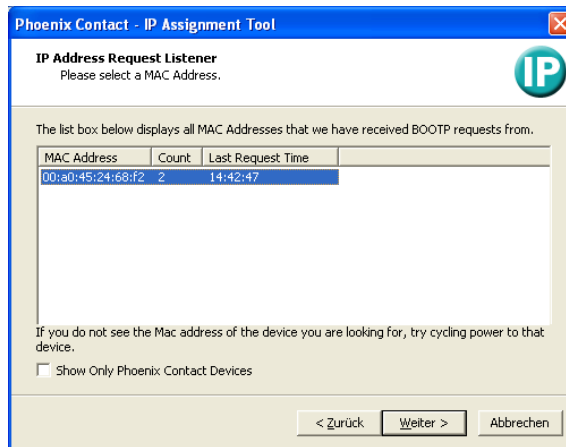
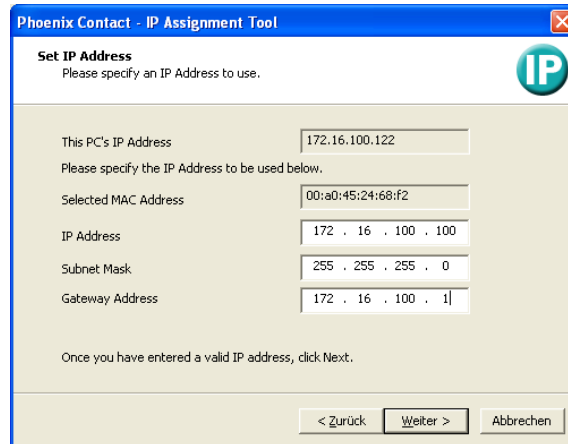


Figure 1-6 Devices sending BootP requests in IPAssign

- Click "Next" and enter the desired IP parameters.



The screenshot shows the 'Phoenix Contact - IP Assignment Tool' window. The title bar is blue with a red close button. The main window has a light beige background. At the top, there's a blue header bar with the text 'Set IP Address' and a sub-instruction 'Please specify an IP Address to use.' To the right of the header is a green circular icon with a white 'IP'. Below the header, there are several input fields: 'This PC's IP Address' (172.16.100.122), 'Please specify the IP Address to be used below.' (a sub-header), 'Selected MAC Address' (00:a0:45:24:68:f2), 'IP Address' (172 . 16 . 100 . 100), 'Subnet Mask' (255 . 255 . 255 . 0), and 'Gateway Address' (172 . 16 . 100 . 1). At the bottom, there's a blue bar with three buttons: '< Zurück', 'Weiter >', and 'Abbrechen'.

Figure 1-7 Mask for IP parameters

- Click "Next". If successful, this window is displayed.



The screenshot shows the 'Phoenix Contact - IP Assignment Tool' window after a successful IP assignment. The title bar is blue with a red close button. The main window has a light beige background. On the left, there's a blue sidebar with the 'PHOENIX CONTACT' logo and the text 'Complete Industrial Ethernet Solutions' above an image of industrial Ethernet components. The main area has a blue header bar with the text 'Congratulations' and a sub-instruction 'The wizard has assigned the IP address to the device.' Below the header, there's a text box containing the following information: 'Successfully Assigned MAC Address: 00:a0:45:24:68:f2', 'the following:', 'IP Address: 172.16.100.100', 'IP Mask: 255.255.255.0', and 'IP Gateway: 172.16.100.1'. At the bottom, there's a blue bar with two buttons: '< Zurück' and 'Fertig stellen'.

Figure 1-8 Message in IPAssign

If you cannot access the web-based management of the GHS, you may have to adapt some settings of your PC.

1.7 Making contact between the GHS and PC for initial configuration

1.7.1 Operation with static IP addresses

To enable the GHS to be accessed using the desired IP address, make sure that the computer and the GHS are in the same IP subnetwork. In this case, for initial contact your computer must be configured so that contact is possible. The following screenshots were created under Windows XP Professional.

To set the IP parameters, open the Properties tab for your network adapter. Activate "Internet Protocol (TCP/IP)" and then click on "Properties".

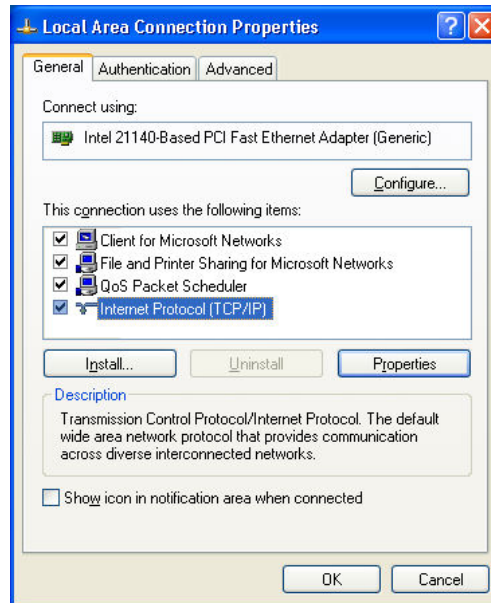


Figure 1-9 Properties dialog box for the network card

In the dialog box that opens, click on "Use the following IP address".

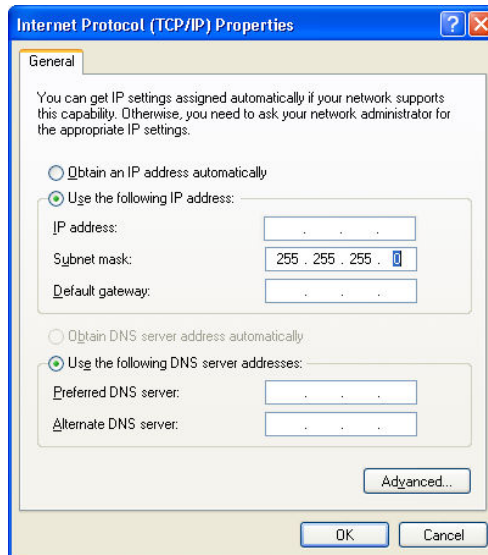


Figure 1-10 Internet Protocol Properties dialog box

Enter the desired IP address of your computer (not that of the GHS) in the "IP address" field and the corresponding subnet mask. Close the dialog boxes with "OK".

The device can now be accessed via a web browser. In the address line of your browser, enter the IP address of the GHS in the following format:

http://xxx.xxx.xxx.xxx

After entering the IP address in the browser, an overview page is displayed for the GHS where no login is required.

After the correct user name and password have been entered the device configuration pages are loaded.

1.7.2 Requirements for the use of WBM

As the web server operates using the Hyper Text Transfer Protocol, a standard browser can be used. Access is via the URL "http://IP address of the device".

Example: "http://172.16.29.112".

For full operation of the web pages, the browser must support JavaScript 1.2 and cascading style sheets Level 1. We recommend the use of Microsoft Internet Explorer 6.0.

1.8 Web-based management

The user-friendly web-based management interface can be used to manage the switch from anywhere in the network using a standard browser. To do this, http or https can be used, this selection is made in the management interface. Comprehensive configuration and diagnostic functions are clearly displayed on a graphic user interface. Every user with a network connection to the device has read access to that device via a browser. Depending on the physical structure of the switch, various information about the device, the set parameters, and the operating state can be viewed.



Modifications can only be made by entering the valid login details. By default upon delivery, the user name is "**admin**" and the password is "**private**".



For security reasons, we recommend you enter a new, unique password.

You can now access the WBM of the GHS.



Please refer to the UM EN FL SWITCH GHS user manual for information on how to use the other management interfaces, (e.g., CLI, V.24).

