

hopf 1000 Product Series Quick Installation Guide

Mounting

Place the module's rail guide bar against the lower edge of the rail, push the module upwards, and clip it to the back.

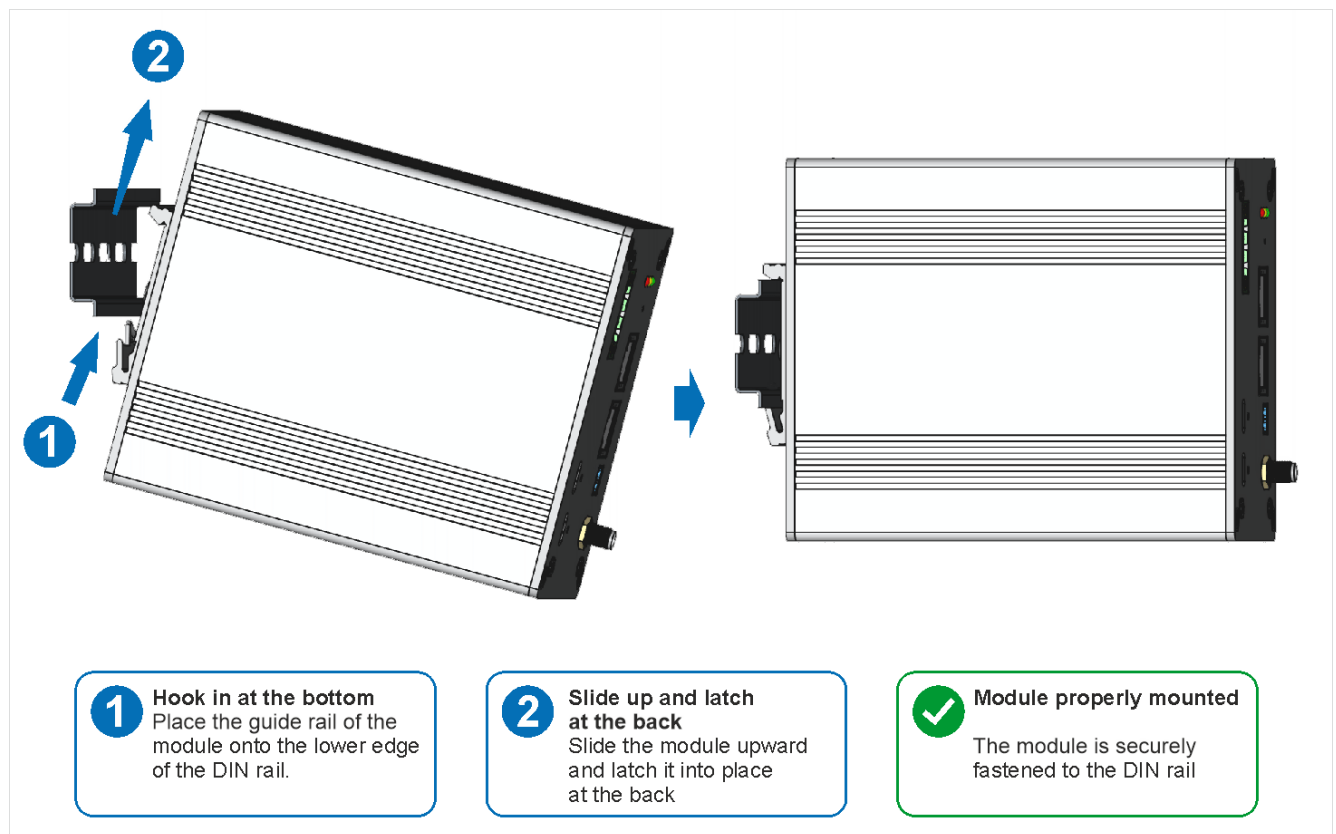


Figure 1: Mounting a module



This unit uses convection cooling. Spacing is recommended for the use of unit in the full operating temperature range and for a long service life. To avoid obstructing the airflow around the unit, use the following spacing rules. A minimum spacing of 25 mm (1.0 inch) above and below, and 10 mm (0.4 inches) left and right of the unit are recommended.

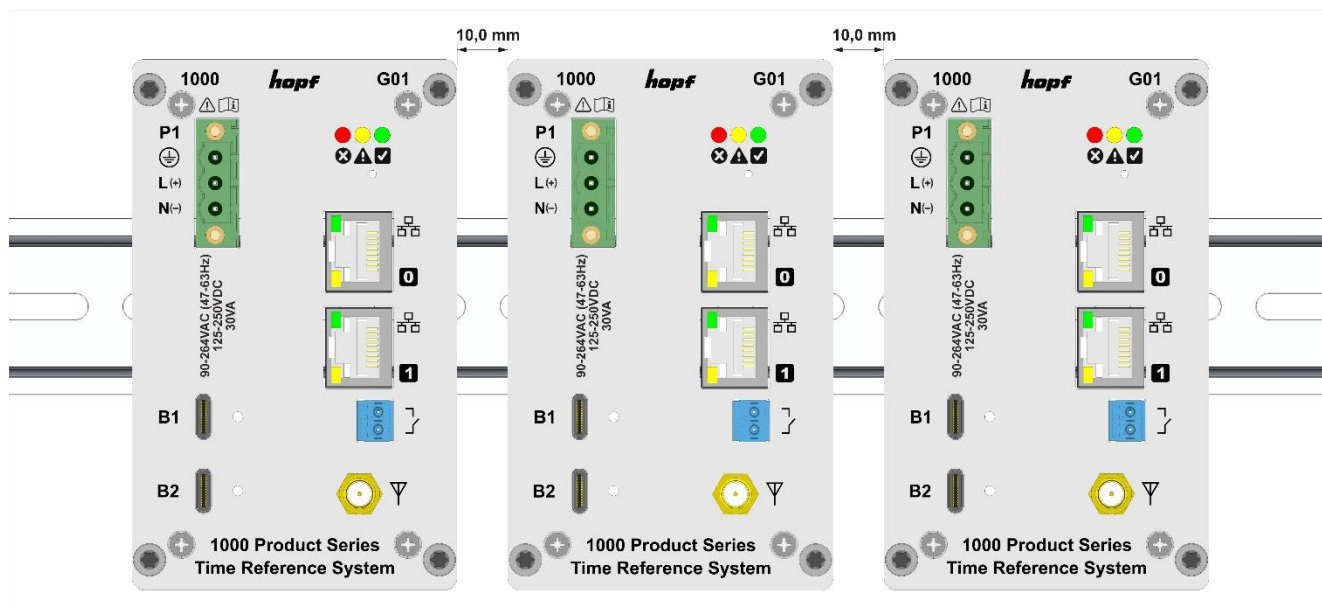


Figure 2: Mounting further modules with spacing rules

Powering and Initial Access

Operating a single System 1000 module (Only Time Domain Controller Modules can be operated as stand-alone modules)

1. Connect a proper power source to P1 or if available P2
2. Connect a computer via a network cable (Cat5e or better) to eth0 of the module
3. Open <https://192.168.0.1> on a browser on your computer
4. Login to **hopf** unified management application huma® web edition with the following default credentials:
 - username: administrator
 - password: administrator



Security Note: Change the default credentials immediately after the initial login to secure the system against unauthorized access.

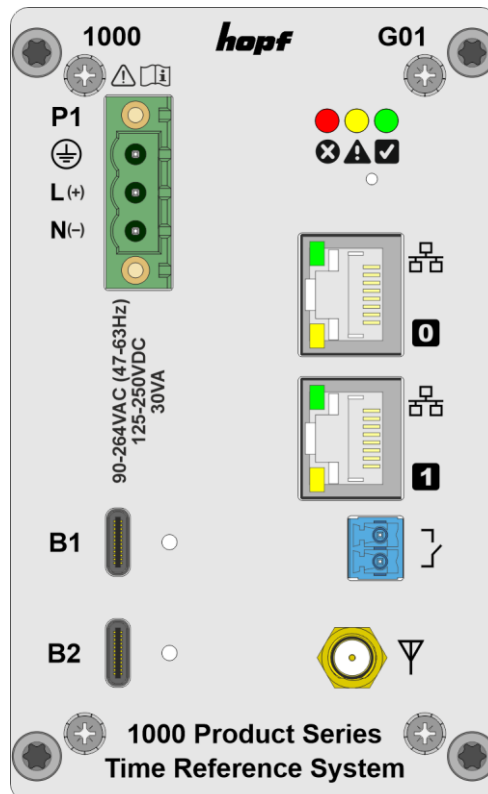


Figure 3: System 1000 clock device consisting of a single FG1000G01 module

Operating more than one System 1000 module as one device

1. Module 1 (at the left end of the chain) must be a Time Domain Controller Module or a Management Controller Module
2. If module 1 is a Management Controller Module, module 2 must be a Time Domain Controller Module
3. All other modules must be Time Service Provider Modules
4. Connect all modules using the included bus cables:
 - B1 connector of module 1 to B2 connector of module 2
 - B1 connector of module 2 to B2 connector of module 3
 - B1 connector of module 3 to B2 connector of module 4
 - B1 connector of module 4 to B2 connector of module 5
 - B1 connector of module 5 to B2 connector of module 6
 - A maximum of 6 modules are supported to build a single clock device
5. Connect a proper power source to P1 or if available P2 of all modules. **REMARK:** All modules must either be powered at the same time or they must be powered sequentially starting with module 1 and module 6 must be the last one
6. Connect a computer via network cable (Cat5e or better) to eth0 of module 1
7. Open <https://192.168.0.1> on a browser on your computer
8. Login to **hopf** unified management application huma® web edition with the following default credentials:
 - username: administrator
 - password: administrator



Security Note: Change the default credentials immediately after the initial login to secure the system against unauthorized access.

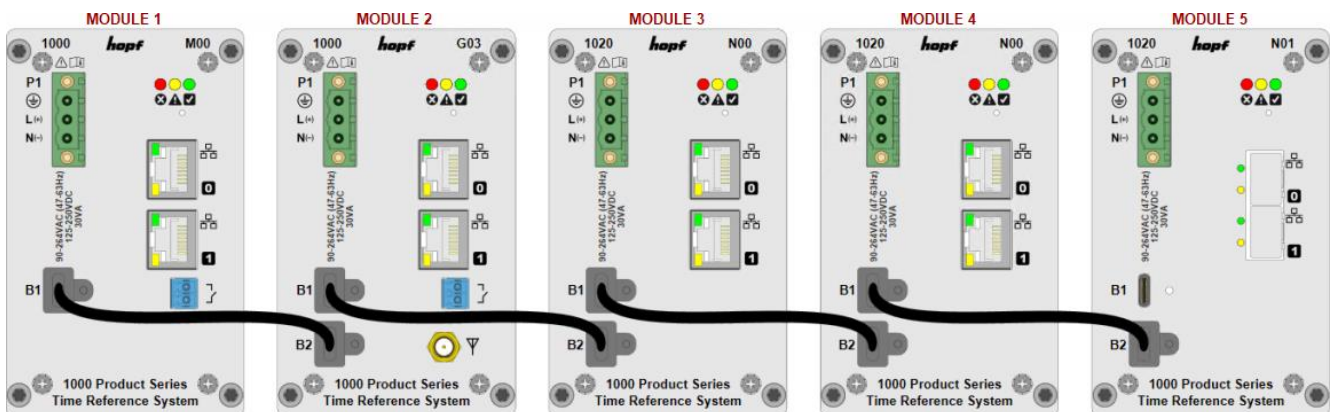


Figure 4: System 1000 clock device with five connected modules

Applying Activation Keys

If your system order contains activation keys, you have to apply the activation keys on your system before you are able to use the activated features. To do that, take the FG100xGxx device of your system perform the steps described in **Powering and Initial Access** in the section **Operating a single System 1000 module**. Afterwards perform the following steps:

1. Navigate to System → Device Settings → KEY ACTIVATION → ACTION ([Link](#))

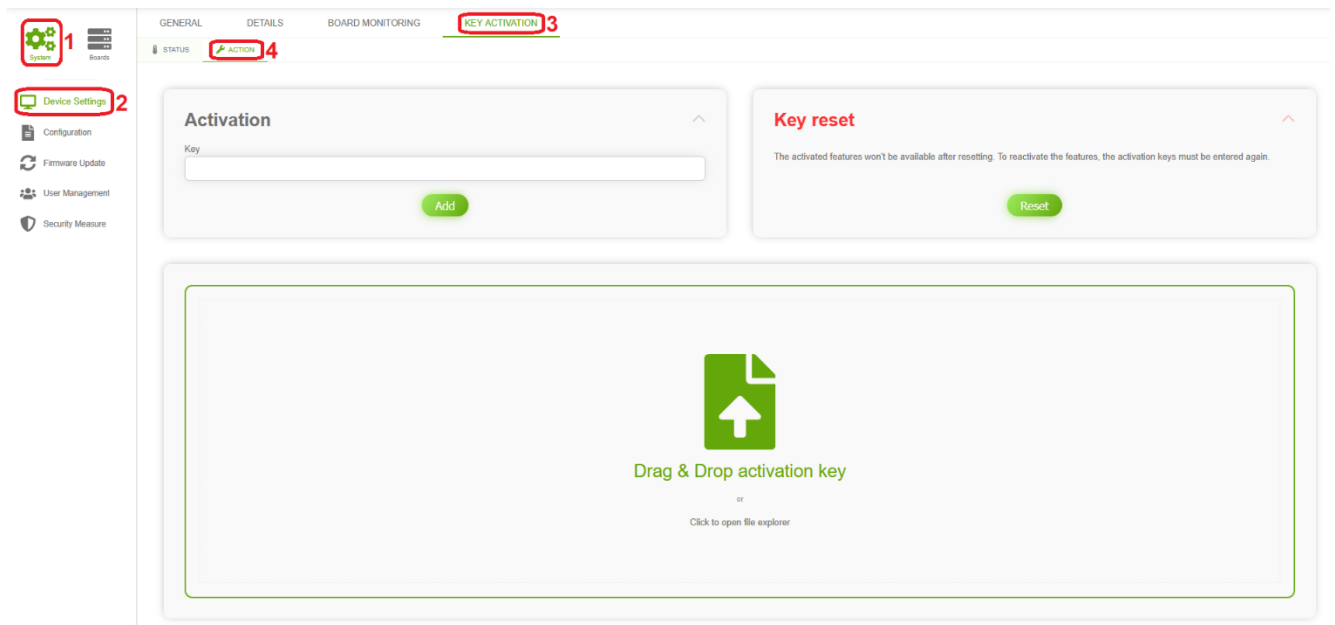


Figure 5: Key activation action page

2. Apply the activation key to the device. You can do this in the following different ways:
 - a. Manually enter the activation key into the Key textfield inside the Activation section, afterwards click the Add button.
 - b. Click into the Key textfield inside the Activation section, scan the QR-code of the activation key into this textfield and click the Add button
 - c. If you received the PDF file of the activation key drag and drop it into the Drag & Drop activation key section

Figure 6 illustrates an activation key example, where the following sections are highlighted:

1. Informational part of the activation key
2. The activation key
3. QR-code containing the activation key

Time Reference Systems
Made in Germany

hopf
Elektronik GmbH

Activation Key

Activation Option	License Identifier	Number Of Licenses				
LI1000A01	0	1				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Product</th> <th style="text-align: left; padding: 5px;">Serial Number</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">FG1000G01</td> <td style="padding: 5px;">999999</td> </tr> </tbody> </table>			Product	Serial Number	FG1000G01	999999
Product	Serial Number					
FG1000G01	999999					

Activation key for product series 1000, Parallel Redundancy Protocol (PRP)

```
wUNJV7U00tH/nmspi2eDv3WBYK9dRS6rAwMRWXSDojBfUfIrhKsfZLgBvEiypkFqsG9JUTEf5Kbr8Y8Xs2Jy5m
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NY1oZsna8WGc6Rys9a51a3j4MUqgm9uVWRSq02x1j9r8DOvwyHti4vwnFbsVGh6uYr1pLU4J7mEP4sQM=
```



hopf Elektronik GmbH

Nottebohmstrasse 41 • 58511 Luedenscheid • Germany
www.hopf.com • office@hopf.com

Figure 6: Activation key example