

Package slip mGuard centerport 2U

EN Installation note for electrical personnel

Thank you for putting your trust in the mGuard product range. The *mGuard centerport* is a powerful firewall/router/VPN appliance from Innominate Security Technologies AG. The combination of high-end firewall and VPN gateway in 19-inch rack-mount format is ideally positioned as central network infrastructure for scalable remote services and security solutions, making it suitable for use in backbone production networks.

This package slip contains a brief description for setting up your mGuard centerport and contains important instructions for startup.

1. Safety notes

To ensure correct operation and the safety of the environment and of personnel, the mGuard centerport must be installed, operated, and maintained correctly. Please use the mGuard centerport for its intended purpose as suited. These can be looked up in the relevant mGuard manual. The user manual as well as additional product information can be found in the download area of the Innominate website at www.innominate.com.

Only connect the RJ45 Ethernet ports and the cable plug of the mGuard centerport to LAN installations. Some telecommunications connections also use RJ45 sockets and these may not be connected to the RJ45 connections of the mGuard centerport.

The installation and servicing of the mGuard centerport may only be completed by a trained specialist. The power plugs of the power supply units are used as power disconnecting points. Therefore, easily accessible power sockets must be used for the power plugs in the immediate vicinity of the device. To disconnect the device from the power network, both power plugs must be pulled. If the device is built into a control cabinet and the power sockets are not accessible, a suitable network disconnection fixture must be installed during the assembly (e.g. an approved disconnecting switch). Sufficient air circulation for the mGuard centerports must be ensured. When stacking several mGuard centerports, one or more 19" ventilator inserts must be provided so that the built up hot air can be released.

2. Technical limit values

The product is intended for use only within the technical limit values specified in the data sheets.

The following limit values must be observed:

- Do not go below or exceed the ambient temperature range of **0 - + 50° C** (operating) and **-20 - +70° C** (non-operating).
- Do not go below or exceed the specified voltage supply range.
- A maximum air humidity of **20 - 90%** (operating) and **10 - 90%** (non-operating) must not be exceeded and formation of condensation must be avoided.
- The maximum switching voltage and the maximum current carrying capacity must not be exceeded.
- The maximum input voltage and the maximum output current must not be exceeded.

Warning:

This is a Class A item of equipment. This equipment can cause radio interference, and the operator may be required to take appropriate measures.

Responsibility of the operator

The operator must comply with all current national regulations with respect to operation, function testing, repairs and maintenance of electronic devices.

Staff qualification

The installation, startup and maintenance of the product may only be performed by qualified specialist staff. Specialist staff must read and understand this documentation and comply with instructions.

Safety instructions for transporting

The following instructions must be observed:

- do not subject the product to humidity during transit. Pack the product accordingly.
- pack the product in such a way that it is protected against shock during transit e.g., in padded packaging.

Before installing, check the product for possible damage caused by inappropriate transport. Transport damage must be recorded in the shipping documents. All claims for damage must be made to the shipping company immediately and prior to installation.

3. Safety instructions for the electrical installation

Electrical connection may only be performed according to circuit diagrams by authorized specialist staff. Observe the instructions on the electrical connection in order not to adversely effect the degree of electrical protection. Safe isolation of live circuits is only guaranteed if connected devices fulfill requirements specified by VDE 0106 T.101 (safe isolation). Additionally isolate or lay supply lines to live circuits separately.

4. Warranty conditions

The manufacturer is not liable for damages resulting from failure to use for not intended purpose, failure to observe this documentation, failure to deploy adequately qualified staff as well as unauthorized modification. The warranty conditions of the manufacturer expire.

5. Limitations on liability

This brief description is intended to explain the content and processes described and undergoes regular checking. Because it is not possible to guarantee that the content and processes are correct in all respects, liability is excluded for all statements or estimates within. Please also be aware that technical data can be changed at any time.

6. Overview

Rear side

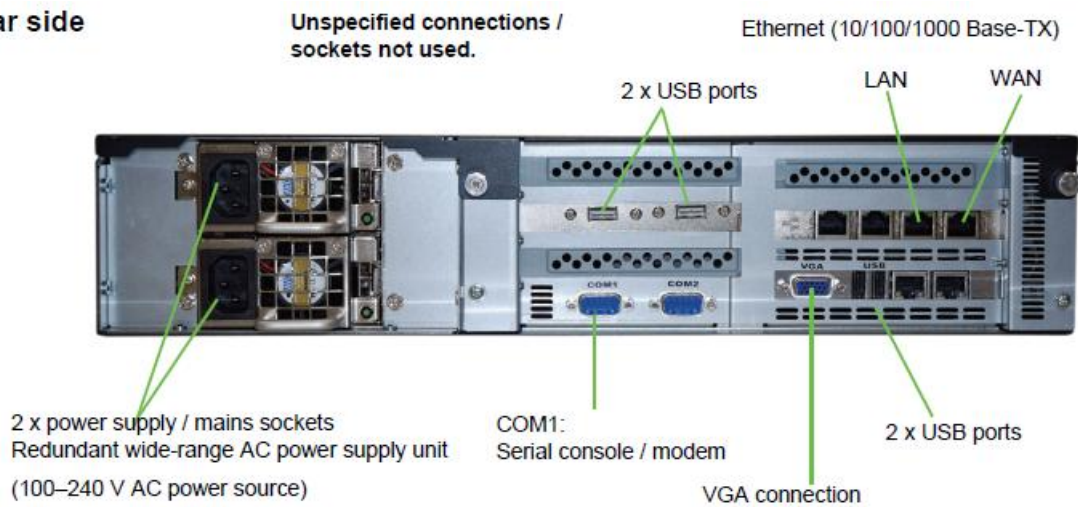


Figure 1: mGuard centerport 2U rear side

Front side



Figure 2: mGuard centerport 2U closed front cover

With front cover opened

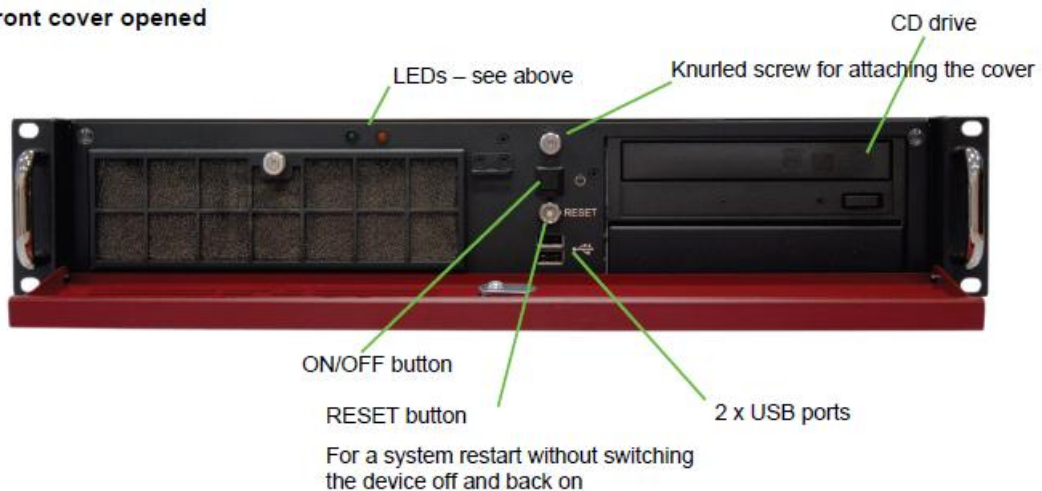


Figure 3: mGuard centerport 2U opened front cover

7. Installation

Connect the mGuard centerport as follows:

- Optional: The device can be installed in a 19" industrial cabinet (see manual).
- Connect the **LAN Ethernet connector** of the mGuard centerport with a suitable UTP cable (CAT5) to the corresponding Ethernet network card of the configuration computer or a valid network connector of the internal network.
- Connect the **WAN Ethernet connector** of the mGuard centerport with a suitable UTP cable (CAT5) to the external network or internet.
- Connect the mGuard power cords with both **power supply** units to appropriate power sockets.
- Optional: Connect a PC monitor (not included) to the **VGA connection**. Connect a PC keyboard (not included) to one of the **USB ports**. The monitor and keyboard must be connected in order to use one of the boot options when booting the mGuard centerport or to carry out a rescue or recovery procedure (see manual). The monitor and keyboard do not need to be connected in order to start and operate the device.
- Open the front cover and press the **ON/OFF button**.
- After switching-on the mGuard centerport, the 'Power LED' lights up green and the 'Hard drive LED' flashes while accessing the permanent storage.
- The mGuard centerport boots the firmware and is then ready for operation.

Information:

If the status / diagnostics indicators do not light up, this is due to incorrect connection voltage.

The default configuration of the mGuard centerport is the router mode. Thus, the mGuard centerport is accessible using the static IP address **192.168.1.1/24** via the internal network interface (LAN).

In order to access the mGuard centerport, the configuration computer must be adapted to the static LAN IP address of the mGuard centerport (example for Microsoft Windows XP):

Set the following in the dialog window 'Internet protocol (TCP/IP) attributes' of the relevant network interface of the configuration computer:

IP address:	192.168.1.2
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1

The mGuard centerport can now be safely configured via a locally connected computer using a HTTPS-capable web browser (e.g., Mozilla Firefox, Google Chrome, Apple Safari, Microsoft Internet Explorer). The HTTPS protocol is used for encryption and authentication of the communication between the mGuard centerport and the browser.

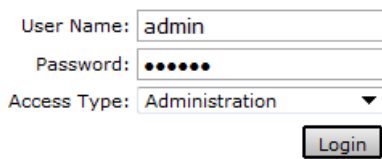
Enter the following address into the web browser: **<https://192.168.1.1/>**

A connection to mGuard centerport is established. A security message indicating a possible invalid/not trusted certificate is displayed. This message results from the use of an mGuard certificate from Innominate that is not yet known to the browser but necessary for encryption of the communication.

Confirm this message with:

'Accept this certificate always/temporarily' (Firefox), 'Continue loading this website' (Internet Explorer), 'Continue anyway' (Chrome), or 'Continue' (Safari).

The login form of mGuard centerport is displayed.



User Name:

Password:

Access Type:

Figure 4: mGuard login page

Select 'Administration' as access type and enter the default user name and password when using for the first time (case sensitive):

User name: **admin**
Password: **mGuard**
Access type: **Administration**

After successful login, the integrated mGuard configuration and administration interface is displayed. Now you can begin with the configuration of the mGuard centerport.

8 Error correction

If connection to the mGuard centerport cannot be established, proceed as follows:

- With the help of the diagnostics and status indicators, check that all connectors and connections are securely fixed and function correctly.
- Remove the power connectors of the mGuard centerport and insert it directly into other power sockets.
- Replace the network cable of the external (WAN) and internal (LAN) network.
- If possible, use other network connections of the internal or external network.
- Deactivate a possible existing software firewall on your computer during configuration.
- Deactivate existing antivirus software on your computer during configuration.
- Use a different browser and make sure you enter '**https://**' instead of '**http://**'.
- Temporarily use a different computer for configuration.