

EU Declaration of Conformity

<https://mc-technologies.com/doc-mc100/>

Frequency bands and transmit power

The supported LTE frequency bands are described in the user manual.

Maximum transmit power

Safety information

The device must only be used with the LTE antenna connected. A minimum distance of 20 cm must be maintained between the antenna and people.

Power supply & mains isolation

The device is powered by a supply voltage of 8–30 V DC via an external power supply unit (LPS – Limited Power Source in accordance with IEC 62368-1).

If an external power supply unit connected to the mains is used, disconnection from the mains is achieved by disconnecting the power supply (e.g. by unplugging the mains plug).

It must be possible to disconnect the device easily at any time.

Documentation

The full German-language operating instructions are available at the following web address:

<https://mc-technologies.com/service-support/download/>

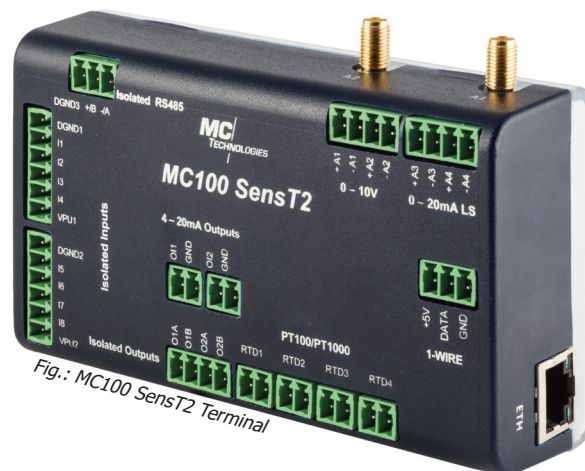


Fig.: MC100 SensT2 Terminal

MC100 Terminal/Gateway

MC100 GPIO Terminal/Gateway

MC100 SensT2 Terminal/Gateway

MC100 wM-Bus Terminal/Gateway

MC100 SensorBox



Quick Guide



MC100 V2

Terminal/Gateway



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Quick Guide

The MC100 terminal/gateway provides easy access to the Internet via the mobile network. A SIM card from your mobile network operator that has been activated for the packet services (GPRS, UMTS, HSPA or LTE) is required for commissioning.

Please follow the instructions step by step and configure the settings for the SIM card. An incorrect PIN can lead to the SIM card being blocked.

1. Antenna

Mount the enclosed antenna on the "A1" port of the MC100 terminal/gateway. Check whether there is sufficient network coverage from your mobile network provider on site.

2. Inserting the SIM card

Insert your SIM card as shown in the figure on the left until it clicks into place. Place your finger on the SIM card latch (to the left of the SIM card) and gently slide the latch to the right until it clicks into place.



3. Power supply

The MC100 terminal/gateway is operated with a supply voltage of 1030V DC. Please connect an external DC power supply with an output voltage of 10-30V DC to the power supply socket "POW" (e.g. 12V > 1.2A or 24V > 600mA).

Please plug the power adapter into the power supply or switch on the power supply. A green "Power" LED lights up (See transparent bottom shell on the side of the antenna connections). After a short initialization phase (approx. 40 seconds), the device is ready for operation.

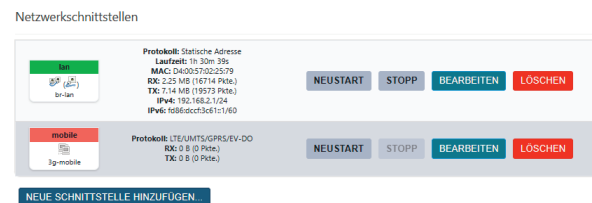
4. Configuration via web interface

The MC100 terminal/gateway can be configured to set the mobile radio parameters (SIM pin, APN, etc.) via an integrated web interface. To do this, connect the Ethernet interface of your PC and the Ethernet interfaces of the MC100 (ETH) with a network cable.

- The PC must obtain its IP address automatically.
- Open a browser on the PC.
- The terminal/gateway can be reached via web interface as follows: <https://192.168.2.1>
- For authentication, you must enter a user name and password. The default user name is 'root'. When starting up for the first time, you must enter the default password 'Tech#5GR'. This password must be changed after logging in for the first time.

5. Set up SIM and establish connection

Click on "Network" in the menu on the left and then on "Interfaces". Click here at the "MOBILE" interface on the "EDIT" button.



Change Protocol to "UMTS/GPRS/EVDO". Enter the PIN number of your SIM card under the "General Setup" "PIN" tab. Leave the input field empty for a SIM card without PIN. Enter the access data, APN, user and password for data transmission in your mobile network. You will receive the data from your mobile network provider. With many providers, no additional entries for user and password are necessary here.

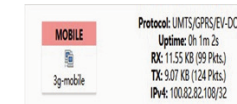
Under the "Firewall Settings" tab, select the "wan: (empty)" setting under "Create/Assign firewallzone".



Confirm your entries by clicking the "SAVE & APPLY" button.

Please disconnect the MC100 briefly from the power supply.

After a startup phase of several minutes, log into the web interface again. Navigate to the menu item "Network" and "Interfaces". Transmission values in MB for RX and TX should now appear in the MOBILE area.



6. Online test

Navigate to the menu item "Network" and "Diagnostics". Click here under "Network Utilities" on the "PING" button. The selected server on the Internet should respond here with PING times.



7. Access to the Internet

After successfully logging into the mobile network, you can now use the browser to connect to the Internet. To do this, open the browser on your PC and enter a URL you know in the address field (e.g. www.mc-technologies.com).

8. Access via SSH

To access the Linux system of the MC100, you must connect to the same IP address (default: 192.168.2.1) as the web interface.

The following access data is required for this:

User: root

Password: Tech#5GR

For security reasons, please enter a password by typing "passwd" under SSH.

9. Access NodeRED™ web interface

If NodeRED™ is installed, you can reach the NodeRED™ web interface by using the same IP address as for the standard web interface and specifying the port (e.g. 1880).

Example with default address: <https://192.168.2.1:1880>