

Operation Quick Start Guide V1.0 for

CONNECT-CONTROL-EUROPE

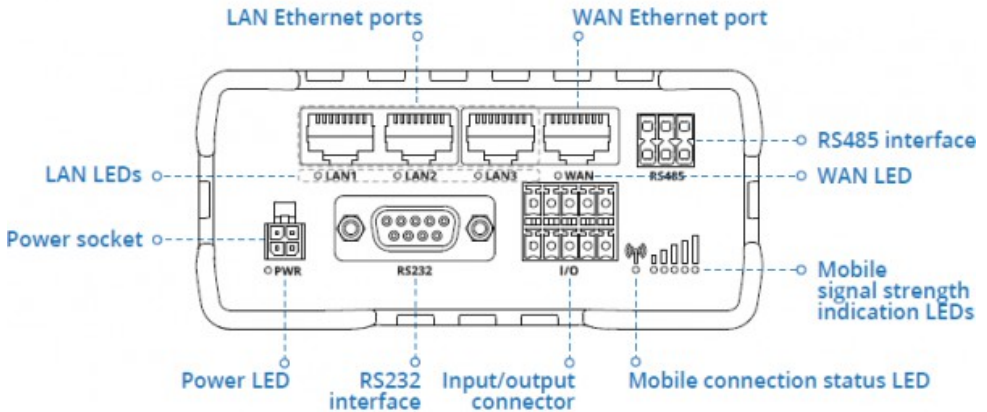
CONNECT-CONTROL-WORLD



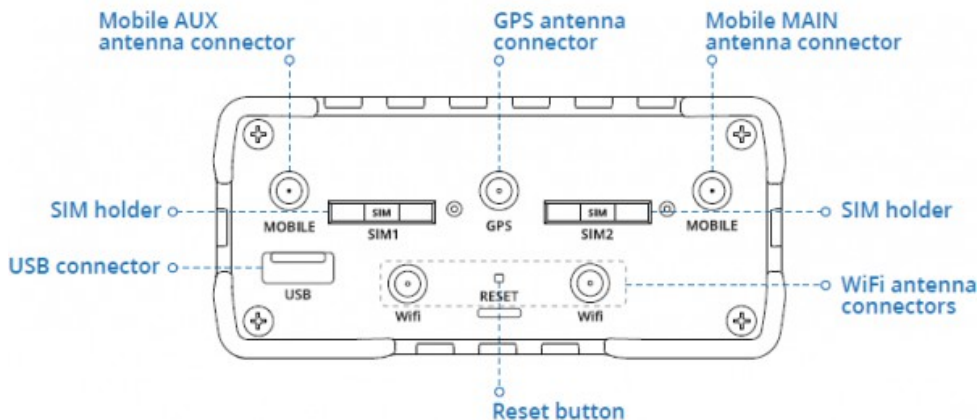
This page contains the **brief instructions** for the **CONNECT-CONTROL-devices**. Here you will find an overview of the various components on the front and back, basic hardware installation, initial login information, device specifications and general safety instructions. It is highly recommended that you familiarize yourself with the quick start guide before using the device. If you have a CONNECT-CONTROL-device, you will also find a printed version of the quick start guide in the device packaging or online on the device's product page.

Connections:

Frontside:

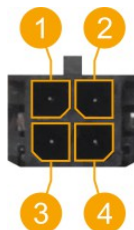


Backside:



Power connector:

No	Description	Wire-color
1	+9 – 30V DC	Red
2	0V	Black
3	E/A	Green
4	E/A	White



Hardware-installation

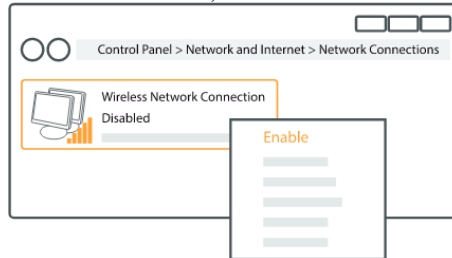
1.) Remove the SIM card slot tray(s) with the pin needle. Insert your SIM card(s) and push the tray(s) back into the router. Correct SIM card orientation can be seen in the figure below :



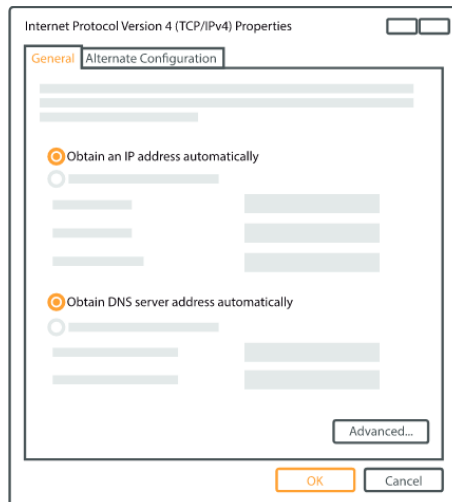
- 2.) Attach LTE, WiFi and GPS antennas
- 3.) Connect the power adapter to the power socket located on the front panel of the device. Then plug the other end of the power adapter into a power outlet.
- 4.) Connect to the CONNECT-CONTROL-device wirelessly or use an Ethernet cable.

Computer-configuration (Windows):

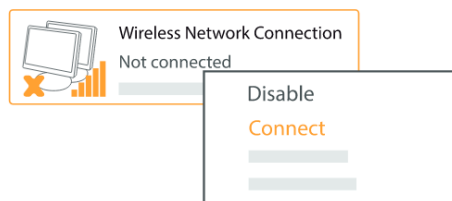
- 1.) Enable the wireless network connection (go to **Start → Control Panel → Network and Internet → Network and Sharing Center**. In the left panel click the **Change adapter settings** link. Right click on **Wireless Network Connection** and select **Enable**).



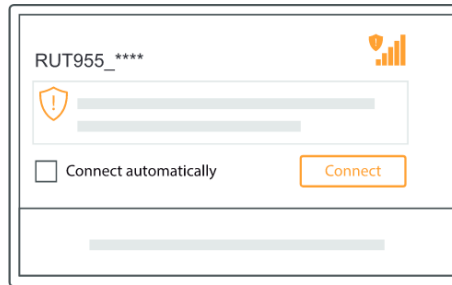
- 2.) Setup wireless network adapter on your computer (right click on **Wireless Network Connection** and select **Properties**. After that select **Internet Protocol Version 4 (TCP/IP)** and click **Properties**).
- 3.) Select **Obtain IP address** and **Obtain DNS server address automatically** if they are not selected. Click **OK**.



- 4.) Right click on **Wireless Network Connection** and select **Connect** to see available wireless networks.



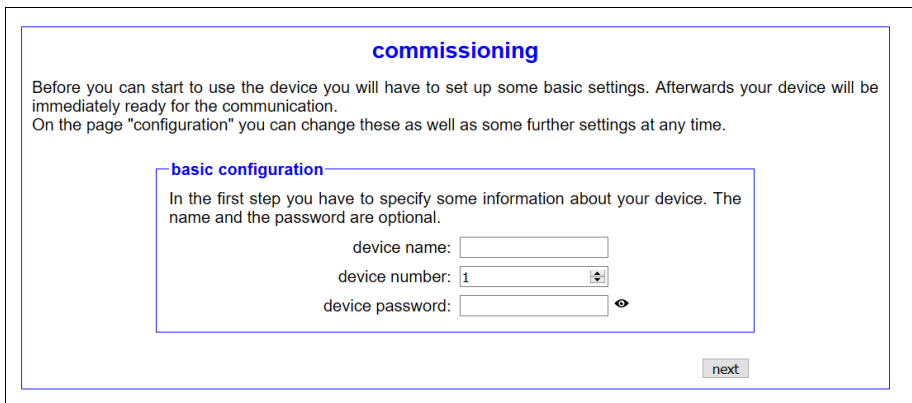
- 5.) Choose the wireless network **RUT955_****** from the list and click **Connect**. Enter the WiFi password located on the device's label



The image shows a WiFi connection interface. At the top, it displays the network name 'RUT955_****' next to a signal strength icon. Below this is a password input field with a shield icon and a warning symbol. Underneath the password field is a checkbox labeled 'Connect automatically' and an orange 'Connect' button. At the bottom, there is a long, empty text input field.

First commissioning:

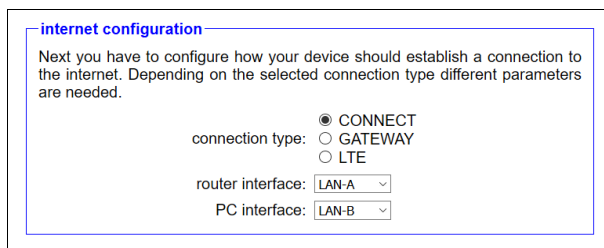
- Connect laptop to this WiFi network or LAN-cable in one of the 3 LAN-port and open with browser webserver with IP: <http://192.168.1.1>:



The image shows a 'commissioning' screen. At the top, the word 'commissioning' is in blue. Below it, a paragraph states: 'Before you can start to use the device you will have to set up some basic settings. Afterwards your device will be immediately ready for the communication. On the page "configuration" you can change these as well as some further settings at any time.' Below this text is a section titled 'basic configuration' in blue. Inside this section, it says: 'In the first step you have to specify some information about your device. The name and the password are optional.' There are three input fields: 'device name:' (text), 'device number:' (dropdown menu showing '1'), and 'device password:' (password field with an eye icon). At the bottom right of the 'basic configuration' section is a 'next' button.

internet configuration:

- CONNECT (uses the internet connection of the connected PC)



The image shows an 'internet configuration' screen. At the top, the text 'internet configuration' is in blue. Below it, a paragraph states: 'Next you have to configure how your device should establish a connection to the internet. Depending on the selected connection type different parameters are needed.' There are three radio buttons for 'connection type': 'CONNECT' (selected), 'GATEWAY', and 'LTE'. Below these are two dropdown menus: 'router interface:' (showing 'LAN-A') and 'PC interface:' (showing 'LAN-B').

- Gateway (uses own ip-address for internet connection)

internet configuration

Next you have to configure how your device should establish a connection to the internet. Depending on the selected connection type different parameters are needed.

connection type: ☐ CONNECT
☒ GATEWAY
☐ LTE

router interface:

IP settings

IP configuration: ☐ DHCP
☒ manually

IP address:

subnet mask:

internet access: ☒ gateway
☐ proxy server

gateway address:


- LTE (uses LTE for the internet connection)

internet configuration

Next you have to configure how your device should establish a connection to the internet. Depending on the selected connection type different parameters are needed.

connection type: ☐ CONNECT
☐ GATEWAY
☒ LTE

LTE settings

PIN code: 

access point (APN):

Peculiarity: The APN "internet" is standard for most providers, but can be changed if necessary

peripheral configuration:

- CONNECT + GATEWAY

peripheral configuration

Here you can select the interface and configure the addresses for the devices (e. g. from a PLC) who can communicate with the devices or the PC from the partner device. When using the connection type CONNECT this step is optional.

interface:

devices

IP addresses:

IP address ranges: -

- LTE

peripheral configuration

Here you can select the interface and configure the addresses for the devices (e. g. from a PLC) who can communicate with the devices or the PC from the partner device. When using the connection type CONNECT this step is optional.

interface:

IP settings

IP configuration: ☐ DHCP
☒ manually

DHCP server: ☒ enable

IP address:

subnet mask:

devices

IP addresses:

IP address ranges: -

partner configuration:

partner configuration

In the last step you can specify to which of your other devices the current device should establish a connection automatically. A connection can also be established if necessary via the page "overview".

connection: ☒ establish automatically

number:

password:

Explanation of parameters:

device name:	Device name (max. 15 characters)
device number:	Device number (1-65535) for assigning the connection (no double device numbers allowed, please note !)
router interface:	Interface of the CONNECT-CONTROL to the Internet router (depending on the Internet configuration, only sensible possible interfaces are displayed)
PC interface:	Interface of the CONNECT-CONTROL to the internet-compatible PC

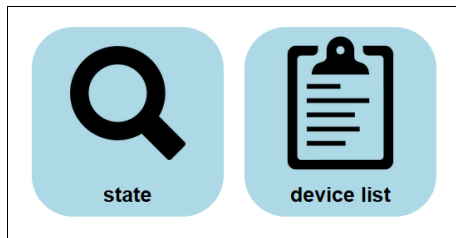
Web interface (after first configuration):

Open the CONNECT web interface by clicking "<http://192.168.1.1>" in your browser with an active WIFI-connection. Or connect your PC to the in the first-configuration specified PC-interface using a LAN-cable and enter "CONNECT" in the address-line of the browser.

Click on the 3 stripes in the top left to open the device menu :

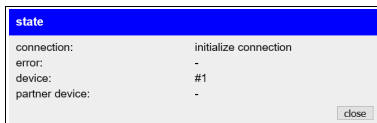
- Overview
- State
- Configuration
- Firmware update

Menu overview (overview of the device) :



The menu is divided into status and device list. Clicking on the respective area opens a corresponding window. All other menus are shown in this menu frame .

The status display shows parameters of the connection, error messages and information about the connected devices :



The Device list menu shows all devices available in your cloud. You can also establish and end connections to the other devices.

The status menu shows information about the IP / MAC addresses of the connection and information about the device:

system

device type: CONNECT LTE
firmware version: 1.00
serial number: -
customer ID: 815

device

name: -
number: 1

interfaces

connection type: none

LTE interface

IMEI number: -
ICCID number: -
SIM state: -
network state: -
network operator: -
network type: -
signal: -
IP state: -
MAC address: -

LAN-A interface

state: not connected
MAC address: c4:93:00:0b:0c:78

LAN-B interface

state: not connected
MAC address: c4:93:00:0b:0c:79

WLAN interface

state: connected
MAC address: c4:93:00:0b:0c:77
BSSID: -
SSID: CONNECT WiFi
channel: 1
signal: -
IP address: 192.168.1.1
subnet mask: 255.255.255.0
gateway: -
DNS server: -

USB-LAN interface

state: connected
MAC address: 00:0e:c8:b2:ed:2f
IP address: 192.168.0.1
subnet mask: 255.255.255.0
gateway: -
DNS server: -

In the Configuration menu, the expert configuration will be carried out differently from the quick commissioning of the device. For example, you can set the DHCP mode, set IP addresses, and carry out the basic configuration of the device again.

The status menu shows information about the IP / MAC addresses of the connection and information about the device:

system

device type: CONNECT LTE
firmware version: 1.00
serial number: -
customer ID: 815

device

name: -
number: 1

interfaces

connection type: none

LTE interface

IMEI number: -
ICCID number: -
SIM state: -
network state: -
network operator: -
network type: -
signal: -
IP state: -
MAC address: -

LAN-A interface

state: not connected
MAC address: c4:93:00:0b:0c:78

LAN-B interface

state: not connected
MAC address: c4:93:00:0b:0c:79

WLAN interface

state: connected
MAC address: c4:93:00:0b:0c:77
BSSID: -
SSID: CONNECT WiFi
channel: 1
signal: -
IP address: 192.168.1.1
subnet mask: 255.255.255.0
gateway: -
DNS server: -

USB-LAN interface

state: connected
MAC address: 00:0e:c8:b2:ed:2f
IP address: 192.168.0.1
subnet mask: 255.255.255.0
gateway: -
DNS server: -

In the Configuration menu, the expert configuration will be carried out differently from the quick commissioning of the device. For example, you can set the DHCP mode, set IP addresses, and carry out the basic configuration of the device again.

system

device family: CONNECT

device type:

☐ CONNECT
☒ CONNECT LTE

serial number:

customer number:

server address:

server port:

access protection

current config password:

config password

change password: ☐ change password

new password:

repeat new password:

general

restart:

default settings:

factory default:

support request:

device

name:

number:

password:

partner device

connection: ☐ establish automatically

number:

password:

interfaces

☒ none
☐ CONNECT
☐ GATEWAY
☐ LTE

connection type:

LTE settings

PIN code:

access point (APN):

LAN-A settings

MAC address: c4:93:00:0b:0c:78

DHCP mode:

IP address:

subnet mask:

gateway:

DNS server:

LAN-B settings

MAC address: c4:93:00:0b:0c:79

DHCP mode:

IP address:

subnet mask:

gateway:

DNS server:

WLAN settings

deactivate WLAN: ☐ deactivate WLAN

MAC address: c4:93:00:0b:0c:77

DHCP mode:

IP address:

subnet mask:

gateway:

DNS server:

search:

mode:

SSID:

security type:

password:

hide SSID: ☐ hide SSID

channel:

USB-LAN settings

MAC address: 00:0e:c6:b2:ed:2f

DHCP mode:

IP address:

subnet mask:

gateway:

DNS server:

In the Firmware Update menu, the firmware of the CONNECT-CONTROL-device is updated.

firmware update

device version: 1.00

firmware file: Keine Datei ausgewählt.

To do this, download the current firmware file to your PC from the product page. With Browse you select this file and accept it. The file name is displayed in the user interface for checking. By clicking Update firmware, the firmware file is loaded into the device and burned to the flash memory after a positive check. The device then restarts.

You can find more about the product and the current device manual on the product page of the CONNECT-CONTROL-device.

Under the web-address <https://www.process-informatik.de> are product specific documentations or software-driver/-tools available to download.
If you have questions or suggestions about the product, please don't hesitate to contact us.

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Menutree Website:

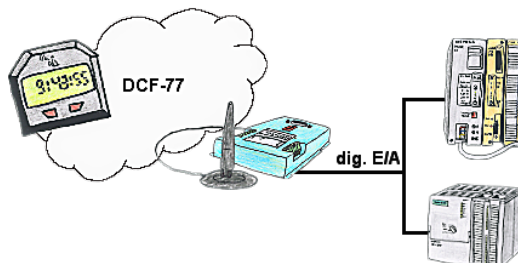
- + Products / docu / downloads
- + Hardware
- + Remote maintenance
- + S5
- + Internet
- + CONNECT devices
- + CONNECT-CONTROL
- + CONNECT-CONTROL Europe-LTE

QR-Code Website:



Please make sure to update your drivers before using our products.

Atomic time at the PLC



For your production flow you're always in need of an exact time? No problem, connect the SPS-Clock with 4 digital in-/outputs of your PLC, after synchronisation of the SPS-Clock the updating time can be read in a DB of the PLC.

Management of the data-areas



With the management of the data-areas it is determined whether the entered data-areas can be read/written via the module with the connected controllers. A central button for the function determines whether the specified inputs are "allowed" or "not allowed" are.

The input itself is kept very simple: "r" for reading and "w" for writing, a ":" as a separator and then the data-area in S7-format. If there is only one CPU on the bus, the CPU-address does not even have to be specified, the participant on which the module is plugged in is used.