Operation Quick Start Guide V1.0 for

S5/S7-TimeServer - EUROPE
## S5/S7-TimeServer - WORLD

This page contains the **brief instructions** for the **S5/S7-TimeServer-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.
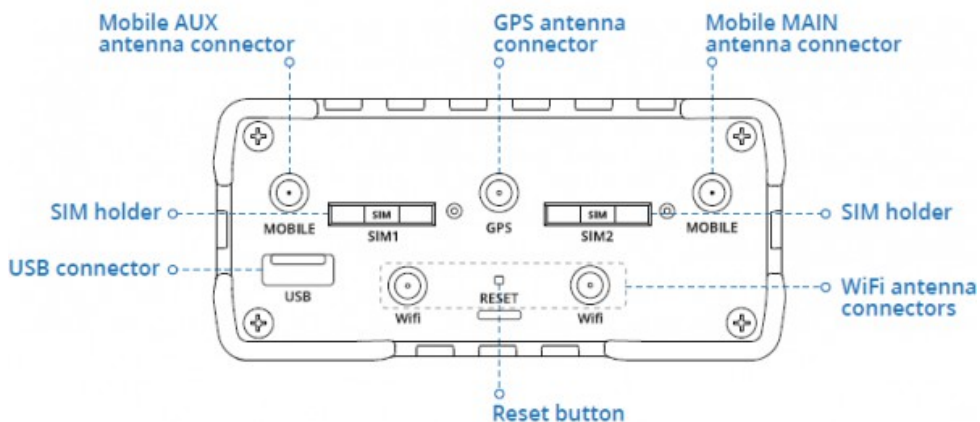
The only difference between the devices is the used built-in LTE modem. The Europe variant can only be used in Europe, the World variant anywhere in the world.
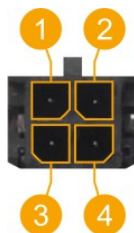
Connections:
Frontside:
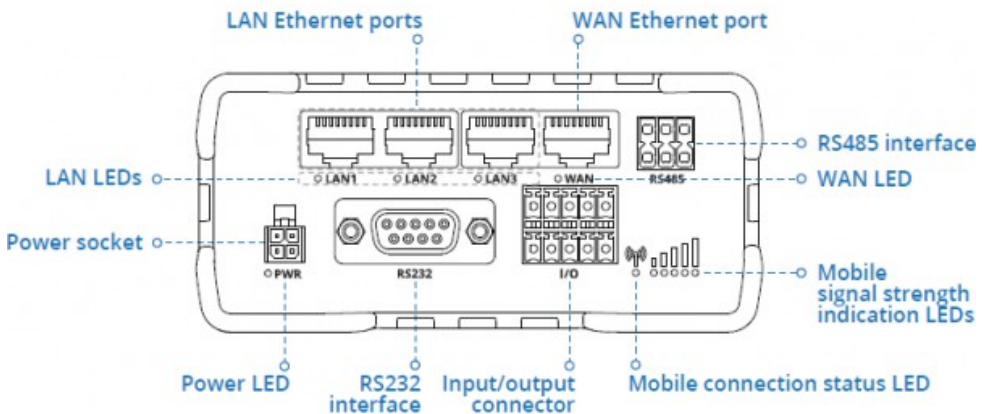
Backside:

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.) Attach WiFi and GPS antennas (WLAN antenna only if access is to take place via WLAN)
2.) 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.
3.) Connect to the CONNECT-CONTROL-device wirelessly or use an Ethernet cable.
   The associated WIFI SSID and password are located on the underside of the device.

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**).
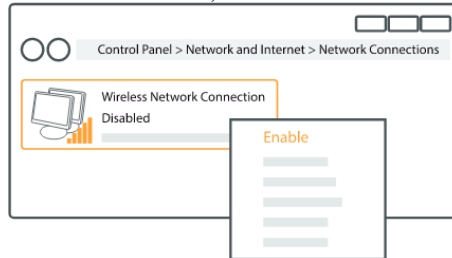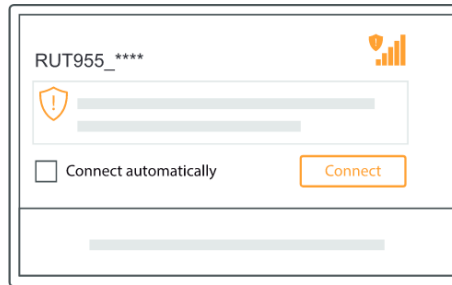

2.) Setup wireless network adapter on your computer (right click on **Wireless Network Connection** and select **Properties**. After that select **Internet Protocol Version 4 (TCP/IP)** and click **Properties**).

3.) Select **Obtain IP address** and **Obtain DNS server address automatically** if they are not selected. Click **OK**.
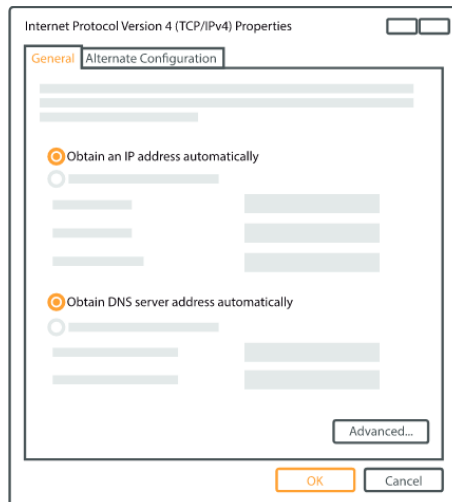
4.) Right click on **Wireless Network Connection** and select **Connect** to see available wireless networks.
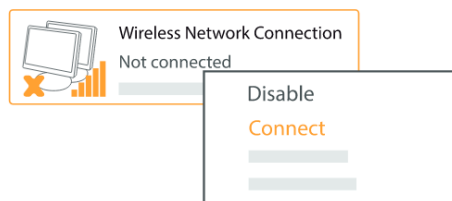
5.) Choose the wireless network **RUT955_****** from the list and click **Connect**. Enter the WiFi password located on the device's label

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
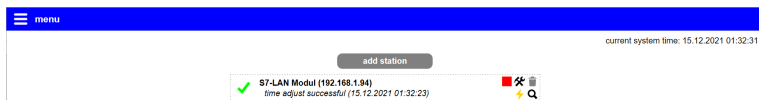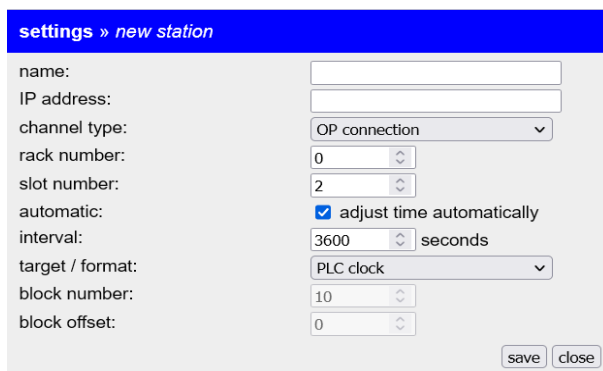
The navigation is done by clicking on the navigation-symbol ( ).

The WLAN parameters and the IP address of the S5 / S7 TimeServer can be adjusted in the configuration menu. The integrated NTP server for network devices can also be switched on and off.

Create a PLC station to set the time:

Click on the navigation symbol in the web interface and then on "Station". In the menu that is now open, you can see the stations that have already been created and you can add more by clicking on "Add station".

Parameter:

name:	Name of this connection
IP address:	IP address of S7-PLC (or S7-LAN-module or S5-LAN++)
chanel-type:	OP-, PG-, or unspecific connection (depending on which connection is free in the HW-Config of an S7-PLC)
rack number:	Rack number of S7-PLC (usually 0)
slot number:	Slot number of CPU-assembly, usually slot 2 (for S7-400 with wide power-supply slot 3)
automatic:	If activated, the time is updated according to the interval-information in the PLC
interval:	Time-interval in which the time is automatically updated when automatic is selected

target / format:
    PLC-clock: write the time directly to the PLC (only S7-300/400)
    DB S7 Date_and_Time: time in DB in Date_and_Time-format
    DB S7 LDT: S7-1500: time in DB in LDT-format
    DB S7 DTL: S7-1x00: time in DB in DTL-format
    DB binary: time in DB, binary

Year:	word
Month:	byte [1...12]
Day:	byte [1...31]
Weekday:	byte [0...6]
Hour:	byte [0...23]
Minute:	byte [0...59]
Second:	byte [0...59]
Sommer time:	byte [0...1]
Updated:	byte [0...1]

    DB ASCII: time in DB, ASCII

Year:	4 Char
Month:	2 Char
Day:	2 Char
Hour:	2 Char
Minute:	2 Char
Second:	2 Char
Sommer time:	Byte [0...1]
Updated:	Byte [0...1]

block number:	for DB-parameter number of data-block
block offset:	for DB-parameter offset of time-information

With „save" the entry is accepted and the entry is completed , with „close" without saving the window closed.

In the overview you can see the defined stations:

stopping of time-connection
configuration of connection
delete of connection

S7-LAN Modul (192.168.1.94)
time adjust successful (15.12.2021 01:32:23)

show diagnosis
set time manually

Stations with a light gray background are stopped, no time is updated here:

S7-300 CP (192.168.1.161)
time adjust successful (15.12.2021 01:33:35)

More about this product can be found in the download area on the product page.

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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+ Products / docu / downloads
  + Hardware
    + Time
      + S5/S7-TimeServer

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

You have to reach urgend your PLC via remote maintenance and have no TS-adaptor in your company? No problem, configure with the MPI-Kabelmanager your S7-interface-cable MPI/PPI-Kabel the mode "TS" for "remote maintenance", connect this cable with the TS-Adapter (article number 9350-TS) with a standard modem and send it all to your client. Now you will be able to start the connection with your TS-sofware and solve the problem. And this all without buying a original TS-adapter.
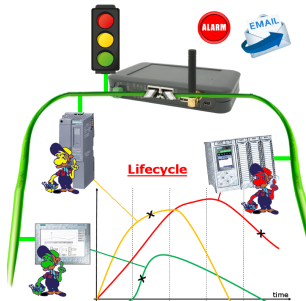
Detection and logging of unauthorized access in the defined Profinet
 Attempted break-ins and access to the network are recognized immediately and e.g. reported by email
 Logging of all accesses in the network for historical processing
 Possible data-storage USB-stick or FTP-server via USB-network-stick.

Identify impending failures in your Profinet.
Creeping aging will be displayed to you very detailed.
The Profinet-Watchdog give you the change to react before something happens.

Actual data of S5/S7-PLC in Excel-file

Vorlage + aktuelle SPS-Daten => Excel-Datei
Template + actual PLC-data => Excel-file
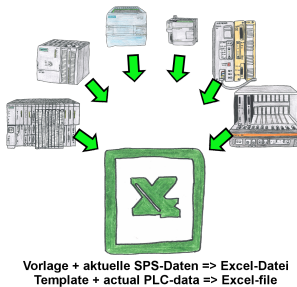
Logging of workflows, recording of operating states, archiving of process data, all of these requirements can be handled with "PLC data in Excel".
 You create a template-file in Excel, enter special keywords as placeholders for PLC-data such as flags, timers, counters, I/O and the connection-parameters and save the file as a template for the tool. The tool runs on a Windows compatible PC and polls the defined controller. As soon as the trigger event occurs, the configured PLC-data is read out and entered in the template file instead of the placeholder and saved under a specified file-name in the specified directory.
 It is also possible to communicate with controllers without a network-interface via S7-LAN (with S7-200/300/400) or S5-LAN++ (with S5-90U to 155U).
 A corresponding Excel-file for each trigger event.