

Operation Quick Start Guide V1.0 for

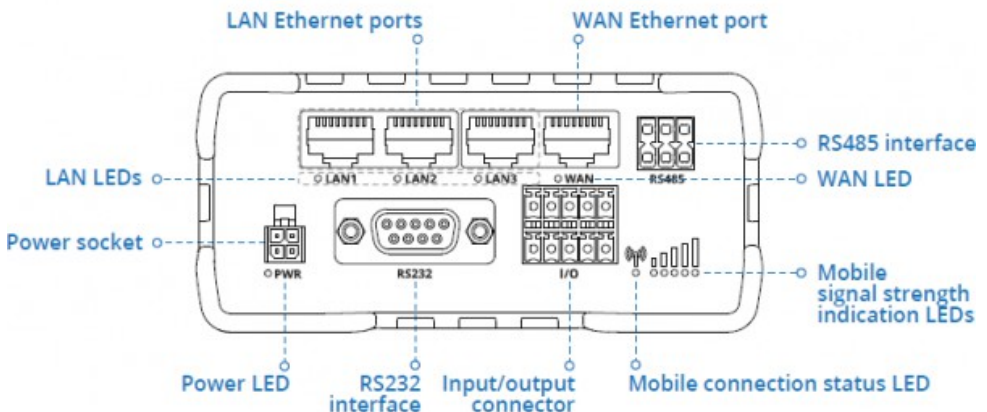
S5/S7-TimeServer - EUROPE S5/S7-TimeServer - WORLD



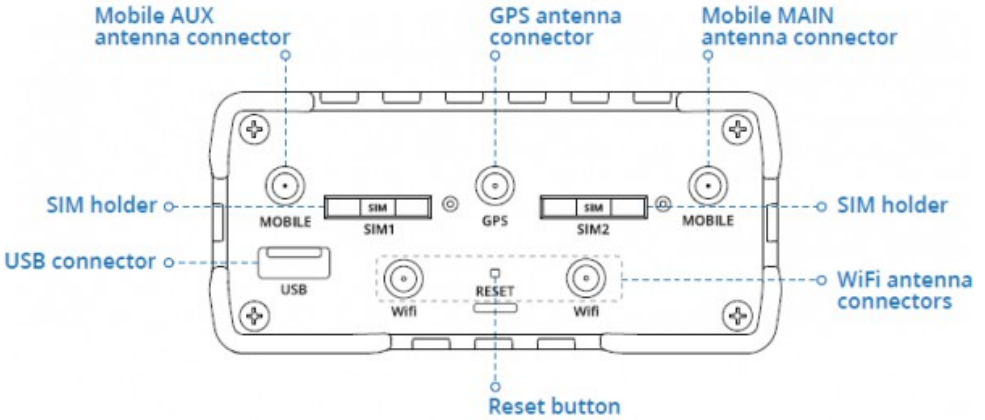
This page contains the **brief instructions** for the **S5/S7-TimeServer-devices**. Here you will find an overview of the various components on the front and back, basic hardware installation, initial login information, device specifications and general safety instructions. It is highly recommended that 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:

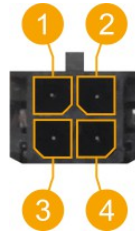


Backside:



Power connector:

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

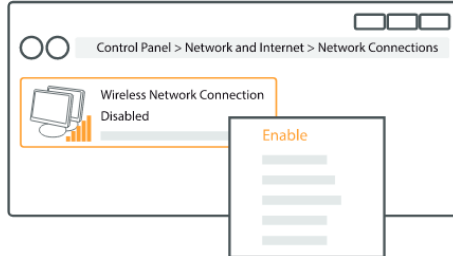


Hardware-installation

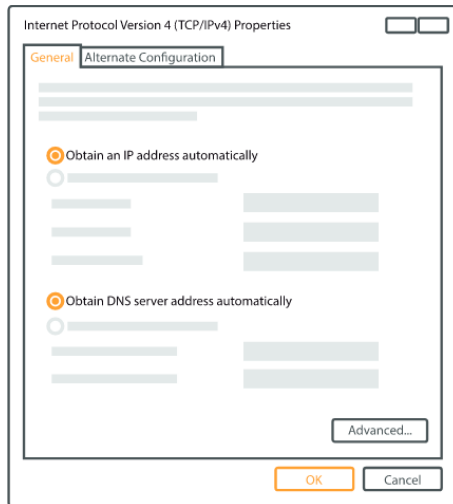
- 1.) Attach WiFi and GPS antennas (WLAN antenna only if access is to take place via WLAN)
- 2.) Connect the power adapter to the power socket located on the front panel of the device. Then plug the other end of the power adapter into a power outlet.
- 3.) Connect to the CONNECT-CONTROL-device wirelessly or use an Ethernet cable.
The associated WIFI SSID and password are located on the underside of the device.

Computer-configuration (Windows):

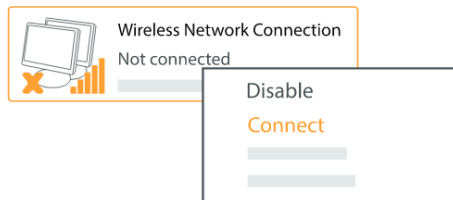
- 1.) Enable the wireless network connection (go to **Start** → **Control Panel** → **Network and Internet** → **Network and Sharing Center**. In the left panel click the **Change adapter settings** link. Right click on **Wireless Network Connection** and select **Enable**).



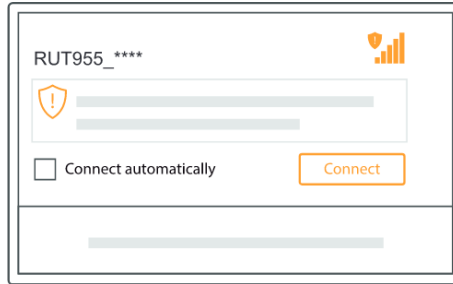
- 2.) Setup wireless network adapter on your computer (right click on **Wireless Network Connection** and select **Properties**. After that select **Internet Protocol Version 4 (TCP/IP)** and click **Properties**).
- 3.) Select **Obtain IP address** and **Obtain DNS server address automatically** if 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

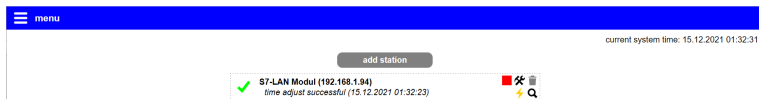



RUT955_****

Connect automatically Connect

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>

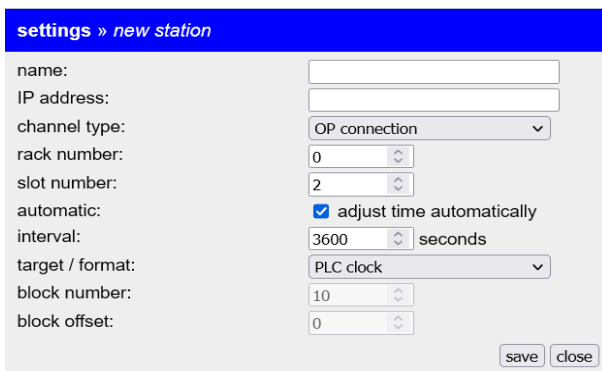


The navigation is done by clicking on the navigation-symbol ().

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".



settings > new station

name:

IP address:

channel type: OP connection

rack number: 0

slot number: 2

automatic: adjust time automatically

interval: 3600 seconds

target / format: PLC clock

block number: 10

block offset: 0

save close

Parameter:

name:	Name of this connection
IP address:	IP address of S7-PLC (or S7-LAN-module or S5-LAN++)
channel-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:

The screenshot shows a station entry for 'S7-LAN Modul (192.168.1.94)' with the status 'time adjust successful (15.12.2021 01:32:23)'. The entry has a light gray background. To the right of the entry are several icons: a red square, a crossed-out wrench, a trash can, a lightning bolt, and a magnifying glass. Red arrows point from text labels to these icons: 'stopping of time-connection' (red square), 'configuration of connection' (crossed-out wrench), 'delete of connection' (trash can), 'show diagnosis' (magnifying glass), and 'set time manually' (lightning bolt).

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

The screenshot shows a station entry for 'S7-300 CP (192.168.1.161)' with the status 'time adjust successful (15.12.2021 01:33:35)'. The entry has a light gray background. To the right of the entry are several icons: a green checkmark, a play button, a crossed-out wrench, a trash can, a lightning bolt, and a magnifying glass.

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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<https://www.process-informatik.de>

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Menutree Website:

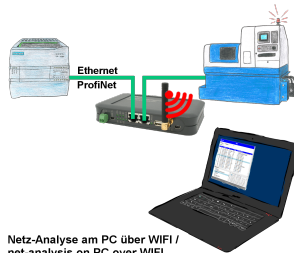
- + Products / docu / downloads
- + Hardware
- + Time
- + S5/S7-TimeServer

QR-Code Website:



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

Network analysis/monitoring made easy



Netz-Analyse am PC über WIFI /
net-analysis on PC over WIFI
Störungs-Erkennung / Failure detection
Ausfall-Wahrscheinlichkeit / Failure probability
Protokoll-Aufzeichnung / Protocol recording

Analyze network-problems and network-conflicts with little effort. Simply plug the TINA into the network, open website of the integrated web-server via WIFI and start working.

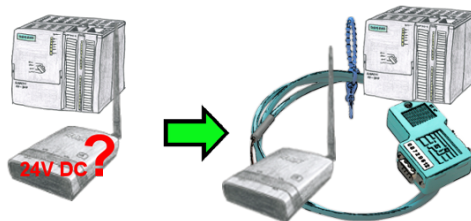
No unnecessary search for a hub to record the logs. TINA records in the usual WireShark-format, i.e. save the recording on a PC and view and evaluate it later with WireShark.

Monitoring the network, automatically send an email to the administrator if there is no participant or if there is a new participant (Intrusion-detection into the network)

Calculate the probability of failure of the participants

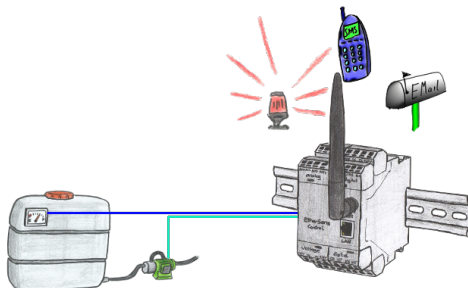
All of this can be achieved with TINA

24V-supply from the PLC



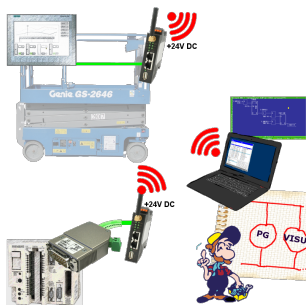
You want to install your ALF directly in the switch-board and would like to use the 24V of the existing S7-PLC? No problem, connect the open ended side of the Kabelbrücke to the 24V port on your ALF and the bus-side on the MPI- or Profibus of this PLC. Even the ALF is supplied above this PLC.

Capture data and control independently



Apply small control tasks of your systems with EtherSens-Control-devices. Determine switching points where the device is running to respond. Depending on the parameterization, an email or SMS notification (depending on the device-configuration) or the device automatically controls via the optional IO-modules (analog / digital / relay).

Current S7 panels via WLAN to the S5 controller



Connect each S7-TCP-IP panel to your S5.
Now also available via WLAN for mobile workstations.
PARALLEL several panels and even simultaneous PG connections possible.
Include hard-to-reach places in your ERP system.