

Teltonika FMx 640 With TCP Link Mode

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Introduction: Understanding what is FMB640 RS232/RS485 TCP Link mode:

In this mode link with external device (for example PC) using text messages can be established. FMx has to be connected to the external device through RS 232 on COM1/COM2 port of FMx. Any string of data coming to COM port will be routed to server (if link is currently active). Messages that are exchanged between FMx device and server, have to be packed in Codec.12 format. Here for TCP link establishment, we will use Hercules. For sending messages from FMx to server Terminal will be used.

Step 1. Connect the FMx640 to the RS232 on COM1:



Step 2. FMx640 Configuration:

The FMx configurator you have to set parameters for COM1 or COM2 (depends on which COM port you are using) in global parameters window. You have to modify the server settings to your PC IP and your TCP port.

TELTONIKA

Load from device | Save to device | Update firmware | Reset configuration | Reboot device

Load from file | Save to file

IMEI 867648043451507
FW 01.02.22 Rev:04
Configuration 4.37.17.0

Status | Security | System | **GPRS** | Data Acquisition | SMS \ Call Settings | SMS Events | GSM Operators | Features | Accelerometer Features | Auto Geofence | Manual Geofence Settings | Manual Geofence Zones | Trip \ Odometer | Bluetooth 4.0 | Beacon List | Authorization ID List | I/O | LVCAN | FMS IO | Manual CAN IO | Tachograph Data

GPRS Limits

GPRS Limits: Disable Enable

Home Limit (MB):

Roaming Limit (MB):

Server #1 Settings

Domain:

Port:

Protocol: TCP UDP

SIM1 GPRS Settings

GPRS Context: Disable Enable

APN:

APN Username:

APN Password:

SIM2 GPRS Settings

GPRS Context: Disable Enable

APN:

APN Username:

APN Password:

Server #2 Settings

Backup Server Mode: Disable Backup

Duplicate: Duplicate EGTS

Backup Server Protocol: TCP UDP

Backup Server Domain:

Backup Server Port:

FOTA WEB Settings

Status: Disable Enable

Domain:

Port:

Period (min):

Facebook | YouTube | Twitter | Instagram | LinkedIn | WhatsApp | Telegram | RSS

TELTONIKA

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Garmin Settings

Garmin Features: Ping Filter Unicode filter

RS485 Settings

Mode:

Baudrate:

RS232 Settings

COM1 settings

Mode:

Baudrate:

Message Timestamp: Disable Enable

Device IMEI: Disable Enable

CMD ID:

COM2 settings

Mode:

Baudrate:

Facebook | YouTube | Twitter | Instagram | LinkedIn | WhatsApp | Telegram | RSS

- Modify the Mode from silent to TCP/UDP Ascii mode.
- Make sure that the Baud rate is matching with the baud rate in the terminal, in our example it is the sensor

Note: Try to make sure that your TCP Port is open by checking it with any port checker websites.

Message Timestamp

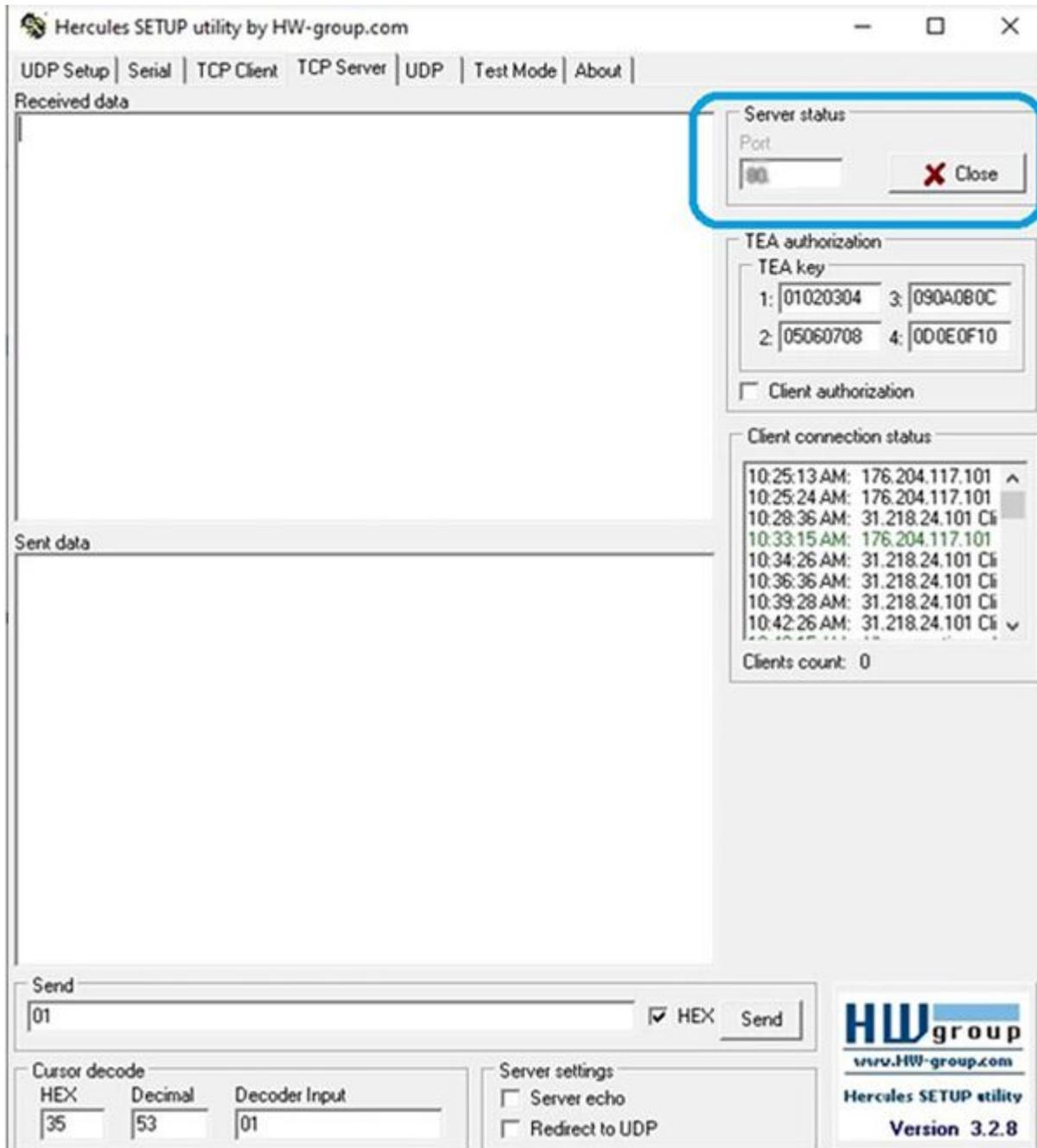
Message Timestamp parameter is used to determine if it is necessary to include a timestamp in the RS232 TCP packet when sending it to the server. If the parameter is Enabled, then Codec 13 is used for data sending. Otherwise, Codec 12 is used.

You can also use RS485 which is also suitable for Ascii TCP Link mode. In order to make a link between FMx640 device and server, Domain and Target Server Port have to be set in the working device profile, GPRS data sending Settings section. When the right parameters are set, you can save the configuration to the FMx640 device.

Step 3. Establishing FMx test link with server through Hercules and sending messages with Hercule:

In this case we have a PC that is considered to be a server and an external device at the same time. When FMx is configured and connected to the external device, next that we have to do is to start Hercules which is in server side and will be used for sending and receiving messages.

Here you have to send acknowledgement after receiving the IMEI from the device. then You have to send 01 as a server response.

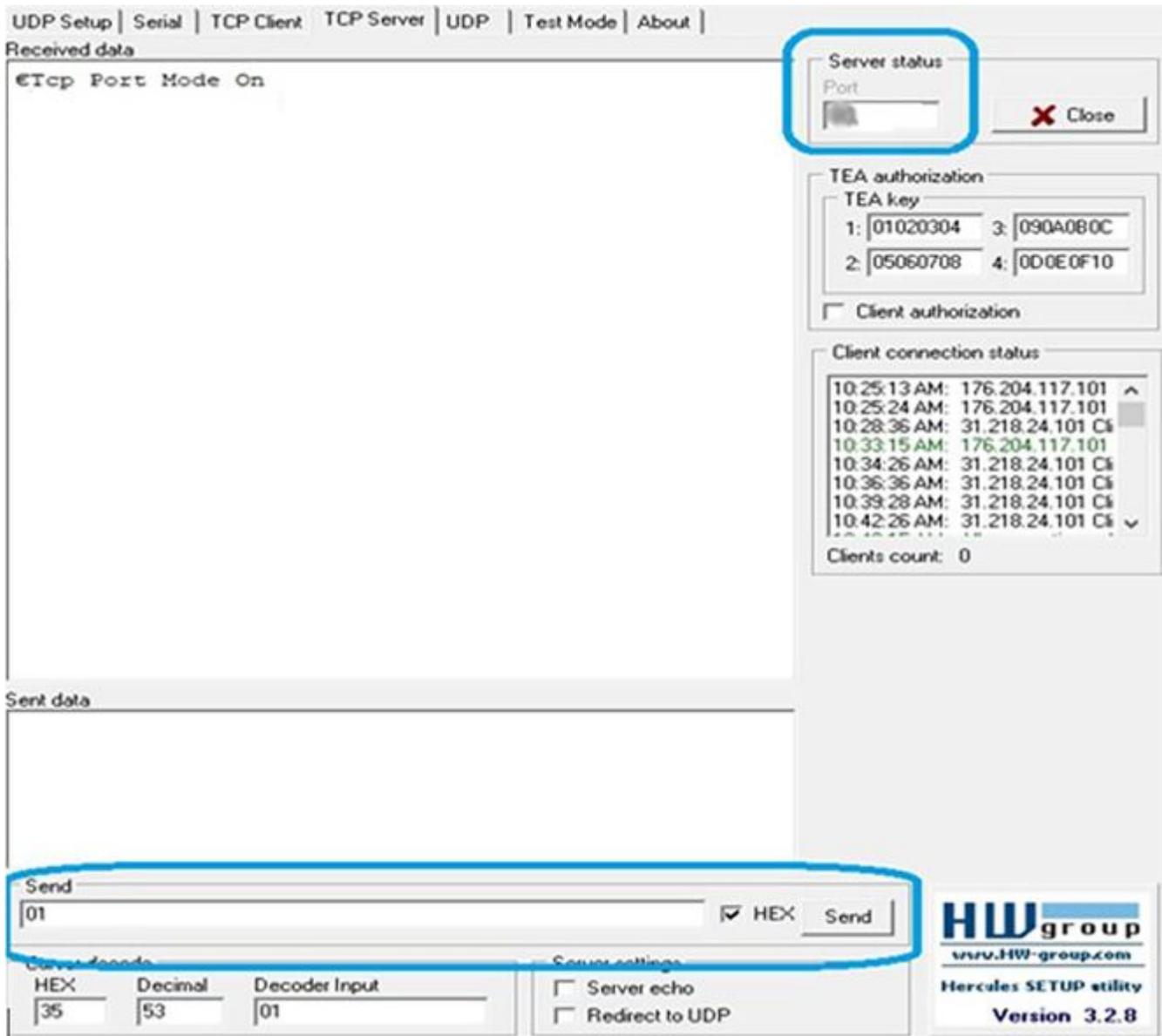


Sending messages with Hercules

You have to choose TCP Server section from the upper menu. In the marked fields.

Step 4. Receiving messages with Hercules:

In this step we need to use the terminal log. When you want to send a message from FMx 640 to the server, write it in Terminal but change your com port and select port which is assigned for COM1/COM2.



Receiving Text from The Terminal to Server Hercules

The Conclusion:

In this mode link with an external device for example PC using text messages can be established. We can apply this scenario on FMx640 or FMx125 which have to be connected to the external device through RS232 or RS485. Any string of data coming to device via RS232 or RS485 will be routed to the server (*if the link is currently active*). Messages that are exchanged between FMx device and server, have to be packed in Codec.12 format and will receive to the Hercules receiver successfully.

Links for download

1. [Hercules SETUP utility](#)
2. [Terminal download](#)