



CANlink mobile 3000 WiFi and Bluetooth Data Transfer User Guide

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CANlink mobile 3000 WiFi and Bluetooth Data Transfer



About this Quick Start Guide

This document is part of the CANlink mobile 3600 series documentation and provides information regarding the installation and configuration of the CANlink mobile 3600 and the first steps with the Launch Kit. The document is intended for qualified technicians and electricians with advanced knowledge in electrical engineering and field bus systems, allowing them to assess the risks and hazards of operating the device and to integrate it into systems with components of other manufacturers. It provides a quick overview of how to set the CANlink mobile into operation with the DataPlatform when receiving the first device together with our Launch Kit. We also assume, that a DataPlatform account setup has been ordered and the technical contact person at the customer has received the information about the setup completion.



Figure 1. General system overview

Further information

For a piece of comprehensive information about the several components, please refer to these manuals:

- CANlink mobile Device Manual
- DataPortal User Manual
- PDC Manual

Onboarding best practice

Due to our experience in integrating a telematics solution into a fleet of machines, we would like to recommend the following best practice for the initial start-up of a CANlink mobile together with your data platform access:

1. Create a laboratory setup with the device and the launch kit or starter kit.
2. Configure the device for your application with our Proemion Configurator software.
3. Activate the device.
4. Create a PDC file to display the recorded signals on the data portal and assign it to the device via the management portal.
5. Check the connection of the device to the data platform and the data transmission and display in your laboratory setup e.g., with simulated, CAN messages.
6. Install the device in a real machine and wire it as described in the device manual.
7. Now check the functionality on the real machine.
8. First, roll out the new setup on a smaller set of pilot machines to prove the solution before using it in the complete fleet.

This document will guide you through the steps necessary for your initial setup.

Provisioning and GoLive

Provisioning allows you to make a machine with a telematics unit installed and available on the DataPortal. The machine will be visible and during the process, you can assign a model and change the machine name, serial number, and PIN/VIN. GoLive is the automated activation of a communication unit (CU) after Provisioning. Once the CU has been activated, it is authorized to connect to the DataPlatform and transfer data.

1. Login to the Proemion DataPortal User Manual
2. Log in with your username and password
3. Provision the CANlink mobile to make it visible on your DataPortal account as described in the DataPortal – Provisioning
4. Use DataPortal – GoLive to activate the device and permit DataPortal communication

INFORMATION

- For the first-time login, the initial password must be set. Please use the “Forgot password” function on DataPortal.
- Enter the username which was provided along with the account setup confirmation email.
- Another email with instructions on how to reset the password will be sent to your email address.
- Please note that the activation of the embedded SIM card can take up to 24 hours in exceptional cases.

Unpacking the Launch Kit

The link mobile 3600 Launch Kit (253000176) consists of the following components

CLM 3600 Starter Cable (136000202)

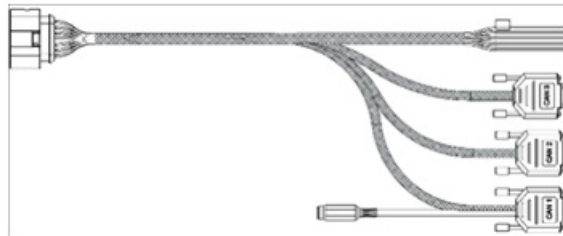


Figure 2. CLM 3600 Starter Cable

Antenna LTE GNSS DA 3M0 FAKRA-D FAKRA-C FAR (157000109)

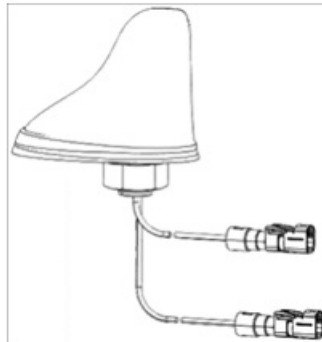


Figure 3. Antenna LTE GNSS DA 3M0 FAKRA-D FAKRA-C FAR

View USB (253001014)

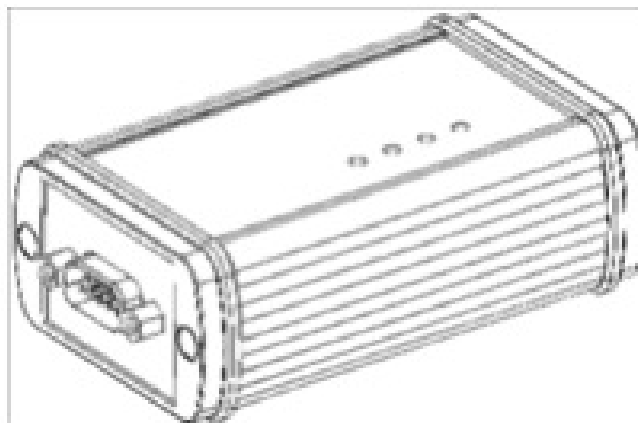


Figure 4. CANview USB

CAN bus terminator D-Sub/D-Sub, 120 Ω (157000033)

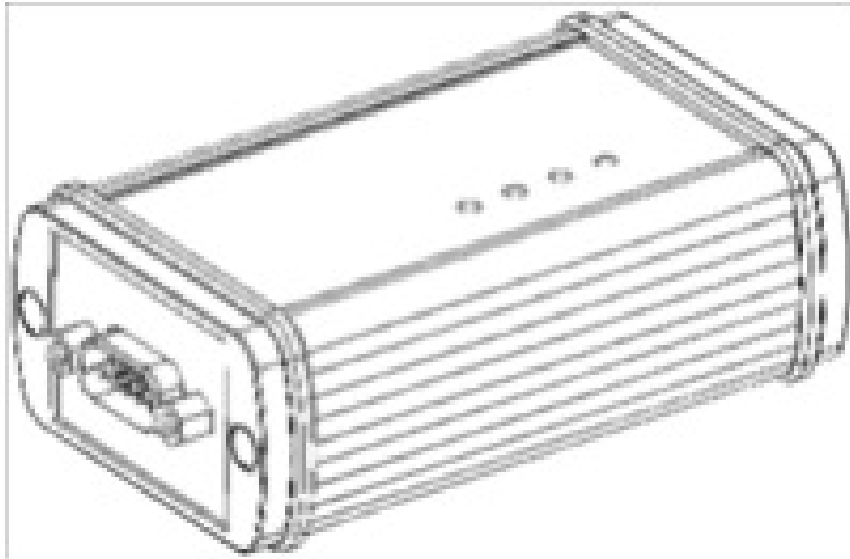


Figure 4. CANview USB

USB Cable for CANview USB (136000119)

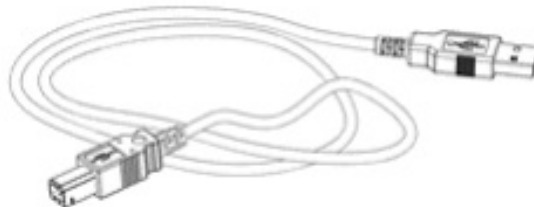


Figure 6. USB Cable (CANview USB)

Power Supply Unit With Set Of Connectors (US, EU, UK, AU) and adapter (257004007)

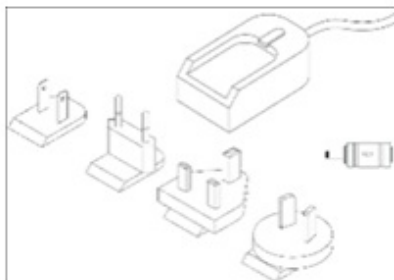


Figure 7. Power Supply Unit With Set Of Connectors (US, EU, UK, AU) and adapter

USB Cable (Debugging, Diagnosis), Micro USB Type B (136000138)



Figure 8. USB Cable (Debugging, Diagnosis), Micro USB Type B

Assembly Set M5 Housing GH1208 (141000017)

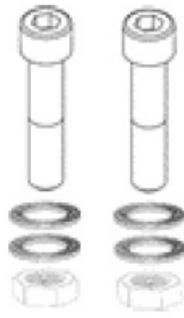


Figure 10. Assembly Set M5 Housing GH1208
Cable MTII 14pin Code1 14open 2m (136000198)

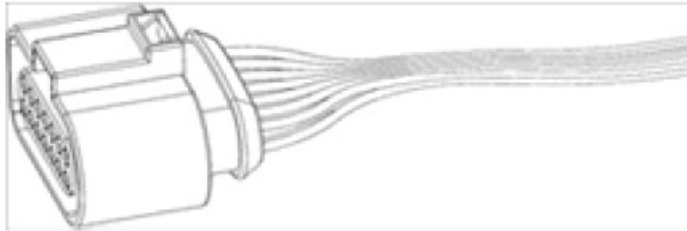


Figure 11. Cable MTII 14pin Code1 14open 2m

CANlink mobile 3000 Plug-Kit (132600031)

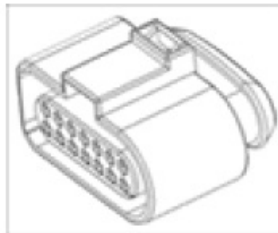


Figure 12. Connector MT

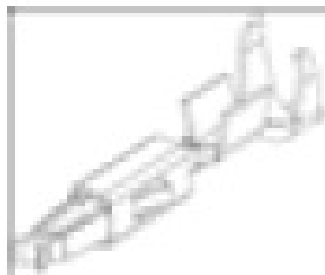


Figure 12. Connector MT



Figure 14. Single Wire Seal (14 pcs)



Figure 15. Cavity Blanking Plug (14 pcs)
Product Information leaflet (144000133)

Figure 16. Product Information Leaflet

For further information regarding the components of the Launch Kit, please refer to the CANlink mobile Device Manual → Launch Kit.

Connecting the Device to a PC

Connect the CANlink mobile 3600 to your PC as shown in the image below. Please use the components from the Launch Kit.

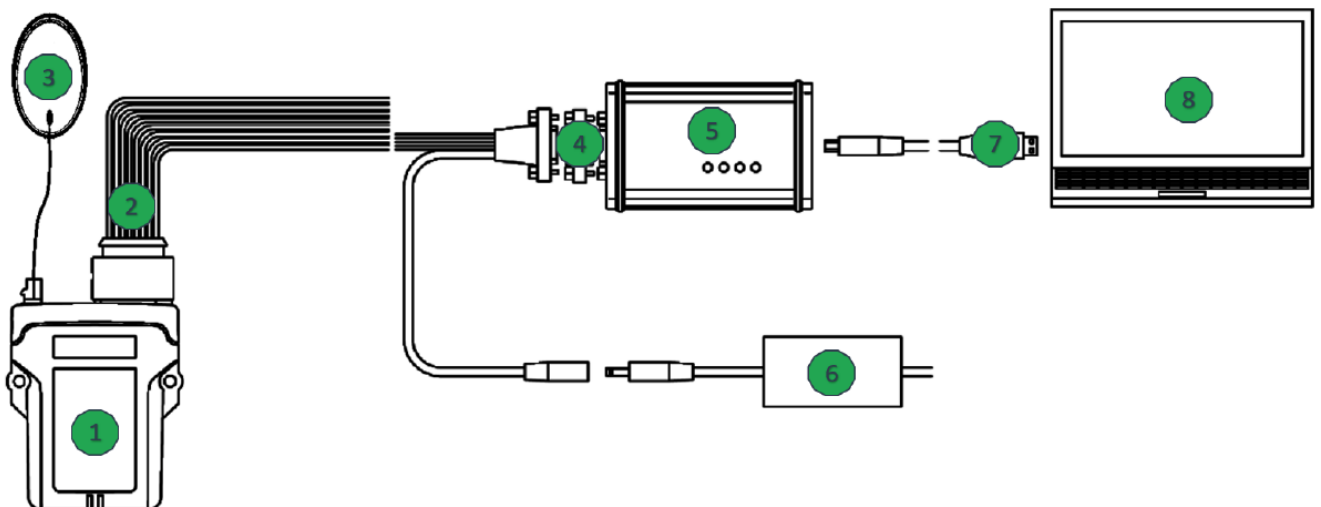


Figure 17. Connecting The Device With A PC

1. CANlink mobile
2. CLM 3600 Starter cable
3. Antenna
4. CAN bus termination resistor 120 Ohm
5. View USB
6. Power supply
7. USB cable
8. PC

Please also refer to CANlink mobile Device Manual – Connecting the Device.

INFORMATION

Please be aware that the CANlink mobile 3600 is not equipped with an integrated CAN bus termination resistor. The displayed laboratory setup above will work with just one CAN bus termination resistor. When doing the system integration at the intended machine, it must be ensured that the CAN bus is terminated with a CAN bus termination resistor of 120 Ohm at each end of the CAN bus line. Please also refer to CANlink mobile Device Manual – Can Bus Termination.

Installing Proemion Configurator

- Install the latest version of the Proemion Configurator from our Download Center.
- In case of problems, the Connectivity Check utility can be used to check the connectivity of our software tools with our services from your site's network.

Installing Demo Configuration

A demo configuration for your CANlink mobile type is available at our Download Center

Open the corresponding demo configuration file named like clm36xx_Proemion_DemoConfig.DOD with the Proemion Configurator software.

Install the configuration to the device as described in CANlink mobile Device Manual – Configuration Update.

For further information on how to create a customized device configuration, please refer to the CANlink mobile Device Manual – Customizing Demo Configuration File.

Perform a Functional Test

This work step is aimed to simulate the configured CAN messages with a CAN Monitor software and its corresponding CAN-PC gateway. In this case you can use the RM CAN Device Monitor and the CANview USB for a functional test. Other CAN-PC gateways and software may also work for this test. Install the RM CAN Device Monitor which can be found in the Download Center at folder

157002059_PROEMIONtools_CD\05_Uutilities\01_RM CAN Device Monitor. Ensure that the device is wired according to chapter Connecting the Device to a PC. Cyclic send a few sample CAN messages which are configured within the installed configuration of the CANlink mobile in the Receive CAN Messages section.

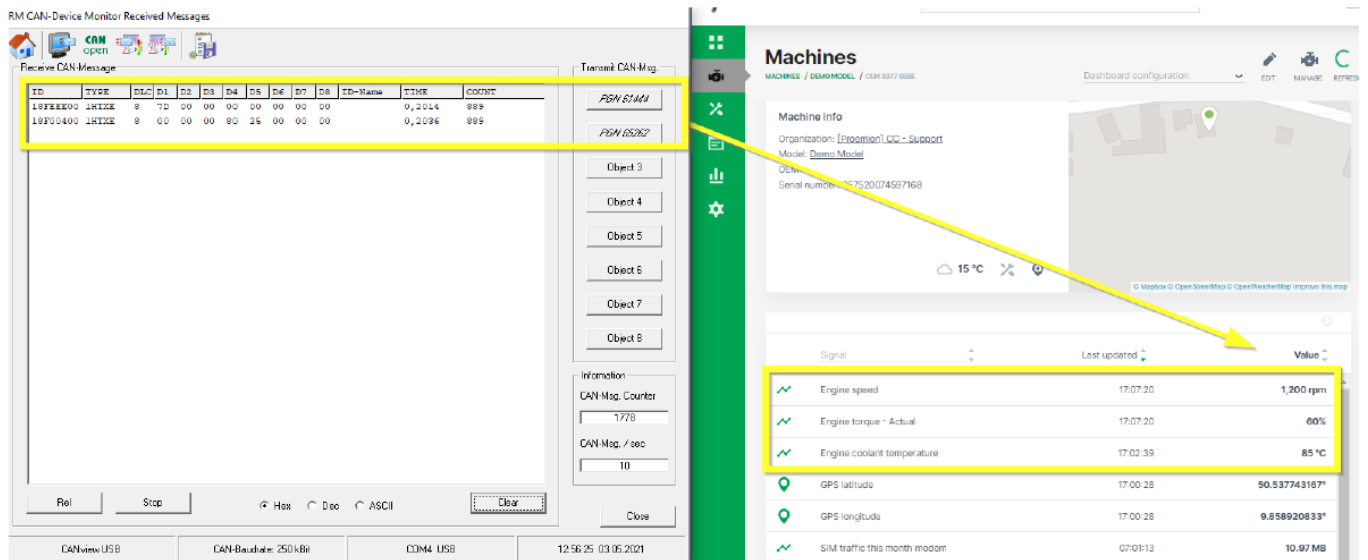


Table 1. The following messages can be used for the test:

J1939-PGN	SPN	CAN ID	Type	DLC	Data Bytes	Signal
61444	190	0x18F00400	Ext	8	00 00 00 80 25 00 00 00	= 1200 rpm

J1939-PGN	SPN	CAN ID	Type	DLC	Data Bytes	Signal
65262	110	0x18FEEE00	Ext	8	7D 00 00 00 00 00 00 00	= 85°C

- Check the status LEDs of the CANlink mobile. The device should be powered on and indicate the reception of CAN messages. Please also refer to CANlink mobile Device Manual → Indicator Elements. In case there is access to a real machine that is also transmitting the configured CAN message, the CANlink mobile 3600 can be also connected to the corresponding CAN bus.

Notice

CAN bus errors possible! Please make sure that the configured CAN baud rate is matching the controller CAN baud rate of the machine.

Check and adjust DataPortal



In the last step, you check and adjust the DataPortal appearance for your machine’s signals.

- Login to your DataPortal account
- Ensure that the customer default model with the demo PDC is assigned to the machine
- Check the displayed signals for your Machine within the DataPortal.
- Modify the machine details page with customized widgets according to your preferences. Please also refer to the DataPortal User Manual – Widget Introduction/Catalog.
- To get further information about the creation and adjustment of customized PDC files, please refer to the DataPortal User Manual – Administration Menu – PDC Management. Version: 11.0.310

Documents / Resources

<small>CANlink mobile 3000 Quick Start Guide</small>	CANlink mobile 3000 WiFi and Bluetooth Data Transfer [pdf] User Guide mobile 3000, WiFi and Bluetooth Data Transfer, mobile 3000 WiFi and Bluetooth Data Transfer, Bluetooth Data Transfer, Data Transfer, Transfer
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References

-  [Portal](#)
-  [Network Connectivity - Proemion](#)
-  [Sharing Link Validation](#)