

blue PiraT Mini BroadR-Reach User Guide

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3. Overview

This User Guide describes the configuration and using of the license **BroadR-Reach** for **blue PiraT Mini** (bPMini).

The general configuration is described in the User Manual of the software client or in the hardware manual of your device.

The blue PiraT2 / blue PiraT Mini TSL client software was tested only under Windows 7.

This document refers to blue PiraT Mini FW 02.00.01 and TSL client version 2.00.01. Some features depending on model and feature license or may not be available in older versions.

Software updates and user guides for all other optional licenses are frequently available in the Telemotive Service Center (please find the address under **Contact**). Please make sure to use current software.

4. System requirements

Control Unit

A Laptop or a PC is used to configure the devices by the Telemotive TSL client. This client also allows to save and convert the recorded data or to use them offline later.

blue PiraT Mini

The blue PiraT Mini is the newest data logger developed by Telemotive AG. It is the smallest data logger with this high capacity and flexibility due to the possibility to combine several devices to one complex network.

The communication of bus systems and control units are monitored and relevant data can be recorded very precisely with the blue PiraT Mini. The collected data are stored on the blue PiraT Mini and can be downloaded to a PC or network storage.

TSL client

The software client of the blue PiraT Mini, TSL **Client** (**T**elemotive **S**ystem **L**ink), is needed to configure the data logger and later to download or convert the recorded data.

License

A license is required to use the **BroadR-Reach** feature. All steps can be performed only with a valid license.

If you need a license for your logger, please contact our sales department. (please find the address unter **Contact**).

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5. Activating BroadR-Reach

BroadR-Reach is an Ethernet based standard that allows multiple components of the electrical system of a vehicle to get access to information by using unshielded twisted-pair wires simultaneously.

The **blue PiraT Mini** allows to disable the rear Ethernet ports **ETH #3** & **ETH #4** and activate the connectors **KFZ BRR 1** & **KFZ BRR 2** at the harness to be used for **BroadR-Reach** logging.

The changing to **BroadR-Reach** is done in two steps:

5.1. Switching the interface in the configuration

In the TSL client the needed interfaces are switched from RJ-45 to BroadR-Reach:

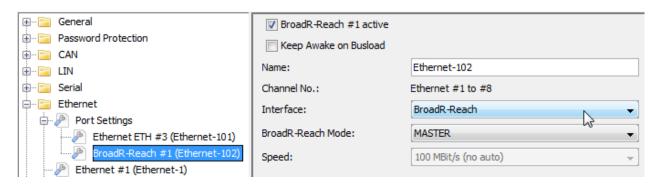


Figure 5.1: Activating BroadR-Reach

For better clarity, the name of the interface changes immediately in the overview. In this case, ETH # 3 is still configured to **RJ-45** and ETH # 4 to **BroadR-Reach #1**.

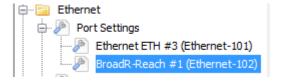


Figure 5.2: description change

The **BroadR-Reach** interface can also operate in master or slave mode.



Figure 5.3: description change

Except for the transfer rate, which is fixed to 100 Mbit/s for BroadR-Reach, all settings inclusive the available filter options, match to the settings for Ethernet logging,

A detailed description of all the settings for the Ethernet ports, see the User Guide for the TSL client.



5.2. Changing the interface

If one or both Ethernet interfaces are changed to **BroadR-Reach**, the Ethernet port on the device is disabled, but the **BroadR-Reach** connector on the wiring harness is enabled instead and must be used for the connection.

The BroadR-Reach interfaces are implemented to the wiring harness as to black connectors and labeled with **KFZ BRR 1** / **KFZ BRR 2**.

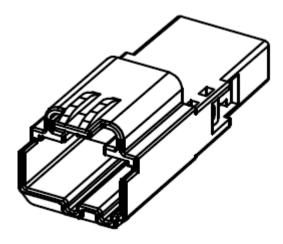


Figure 5.4: BroadR-Reach plug (Molex 310681010-series)

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6. Abbreviations

Kürzel	Bedeutung
blue PiraT	Processing Information Recording Analyzing Tool
bP	blue PiraT
bP2	blue PiraT2
bP2 5E	blue PiraT2 5E
bPMini	blue PiraT Mini
TSL	Telemotive System Link
CAN	Controller Area Network
LIN	Local Interconnect Network
MOST	Media Oriented Systems Transport. (www.mostnet.de)
ECL	Electrical Control Line
MEP	MOST Ethernet Packet
USB	Universal Serial Bus
CF	Compact Flash
SD	Secure Digital
LAN	Local Aerea Network = Netzwerk
FW	Firmware Firmware
PW	Passwort
SFTP	Secure File Transfer Protocol
SHA	Secure Hash
SSL	Secure Sockets Layer
TLS	Transport Layer Security
TMP	Telemotive Packetformat
UTC	Universal Time, Coordinated
GMT	Greenwich Mean Time

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