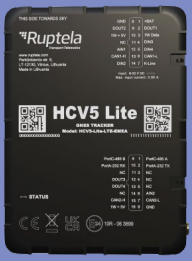
Remote reverse engineering guideline

Supported devices



Datasheet



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Remote CAN logging enables devices to collect RAW data from the connected CAN lines. This information can be used to reverse engineer the data to get the data to map the parameters for usage with Custom CAN feature or provide information for the Ruptela support to get solution for the possible questions.

How to Collect Logs

Start logging:

To start logging, send the following SMS command:
getlog SMS command structure: ***<password> getlog <IP>,<Port>,<Mode>,<Time>***

Where:

<IP>	32-bit number, that refers to the address where the log is sent (xxx.xxx.xxx.xxx).
<Port>	16-bit number, IP address port that log will be sent(xxxxx).
<Mode>	Value ***1*** - Sends a terminal log to a server, Value ***2*** - Sends a CANbus log to a server.
<Time>	The time period for log sending. Defined in minutes. Range: 1-60 minutes.

To send data to Ruptela proprietary remote log server you should send following SMS message:
<smspassword> getlog 92.62.134.14,10103,2,30

1. This command will collect logs for 30 minutes and send them to our remote log server.
2. Important: Ensure the ignition is ON during log collection.

Note: Wait until you receive the "getlog ok" response. Don't move to the next steps of the instructions until you receive the response.

Stop Logging:

To stop logging, send the following SMS command:
<smspassword> stoplog
Note: Log collection will automatically stop after 30 minutes or set amount of time if not manually ended.

How to Provide Logs

If you are providing logs to Ruptela or for personal use, we recommend to make notes what test were made and detailed timestamp for identifying the data with precision.

Example format:
Odometer: Example (2025-01-01 13:00 (GMT+1) 230405, 5 KM).
Refueling: Example (2025-01-01 11:35 (GMT+3) Picture 1, Picture 2, Refuled 40 L) (where Pictures show the indications of fuel gauge before and after refueling.
Door sensor: Example (2025-01-01 00:00 (GMT+2) 3 quick door opens (right front).

Additional information

Additional information on how to decode CAN messages can be found in Ruptela Blog post:
A practical approach to decoding CANbus messages.