

CONNECTIVITY PLATFORM

IP69-rated automotive IoT gateway

With the NG800 automotive IoT (Internet of Things) gateway, Netmodule supports the introduction of telematics in vehicles, especially commercial vehicles. Two CAN interfaces are provided.



(Source: Netmodule)

The gateway provides the necessary communication between on-board electronics and cloud applications such as monitoring of e-mobility, fleet management, and diagnostic tasks. The customer-specific target applications are enabled by the concept of software, electronics, and mechanical components. The case design of the product was awarded the coveted Red Dot Design Award in the Product Design category in 2019.

A key role in all applications is played by wireless communication and the transfer of collected on-board data to another network: for this purpose, the platform integrates an LTE Cat 4 modem, Wi-Fi 802.11abgn, GNSS with Dead Reckoning, and Bluetooth Low Energy (BLE). Via a Molex CMC 48-pin connector, wired interfaces such as CAN, EIA-232, or Ethernet can be connected. Two CAN

interfaces with read-access only are provided. For the rough application area, e.g. on the outside of vehicles, the IoT-gateway is equipped with an IP69-classified outdoor housing.

One field of application of the device is municipal vehicles such as garbage collection, winter services, or street cleaning. For example, in the case of garbage collection, the route taken, the stops made, the number and weight of the respective garbage cans etc. can be recorded and transferred to the control center for evaluation or stored for later access.

In the case of snow ploughs, it is possible to record, when which vehicle drove which route, how much snow was cleared, how much grit was distributed per kilometer and where there were critical points. Local authorities benefit from the collected data in order to make their administration more efficient and thus can optimize the effort involved, said the company.



CW The module is suitable for various application areas (Source: Netmodule)