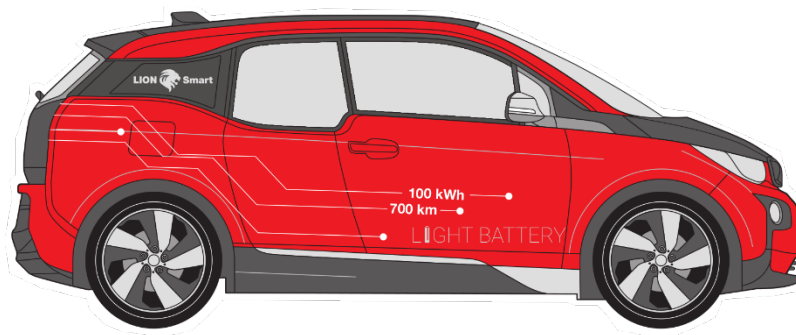


## Infrared BMS Concept Car

The infrared BMS concept car, developed by LION Smart, combines LION's LIGHT Battery and its LIRS (LION Infrared Slave) which communicates via infrared in a BMW i3. The LIRS measurement cards can be cascaded in a master-slave arrangement and carry out wireless data transmission via an infrared interface. In the same way the LIRS card communicates bidirectionally with the LCM master (LION Control Module).

Infrared interfaces enable high data rates and realize system monitoring with high resolution and fast sampling rates. Because there are no cables needed the data transmission is not sensitive to electromagnetic radiation and is robust against mechanical stress.



### LIRS (LION INFRARED SLAVE)

- » Wireless data transmission via an infrared interface
- » LIRS card communicates bidirectionally with LCM master
- » Interface with high resolution and fast sampling rates
- » Data transmission is not sensitive to electromagnetic radiation → no cables needed
- » Flexible arrangement of the modular optical data transmission

