

Intelligent Cloudlink

Product Summary

Main features

Software

- Long Range Bluetooth 5
- LTE-M/NB-IoT
- GPS
- ESIM/SIM
- MQTT support (TLS)
- Firmware Over The Air Update
- Built in Security (Certificates)
- IoT protocol based on MsgPack
- Power management support

Hardware

- nRF9160
 - o ARM Cortex-M33 @ 64 MHz
 - o 1 MB Flash
 - o 256 KB RAM
 - o Multimode LTE-M/NB-IoT modem with GPS
- nRF52840
 - o ARM Cortex-M4 @ 64 MHz
 - o 1 MB Flash
 - o 256 KB RAM
 - o Long Range Bluetooth 5

General description

The Intelligent Cloudlink is an integrated hardware and software solution providing a robust and reliable IoT sensor solution able to connect multiple BLE5 capable sensors and actuators.

The Intelligent Cloudlink uses proven and standardized IoT protocols to provide a secure and flexible way of collecting sensor data from multiple BLE5 capable sensors. The Intelligent Cloudlink is optimized with regards to power consumption and data compression.

The Intelligent Cloudlink provides a complete IoT sensor solution including provisioning, security and firmware update over the air. It also provides a flexible protocol with interfaces for product, sensor, alarm and actuator configuration.

Cloudlink description

The Intelligent Cloudlink can accommodate a large number of sensors and actuators connected via BLE5. Information is relayed in a secure manner from the Bluetooth sensor all the way to a remote server using LTE-M or NB-IoT radio technology. The communication is done using well proven IoT technology and integrates end-to-end security. A well defined communication API based on MsgPack facilitates server integration to services such as provisioning, product configuration and product firmware handling.

Applications

- Industrial control
- Security
- Measurement & data acquisition
- Residences and hotels
- Fire alarm systems
- Medical & Healthcare
- Telecom
- Ship & Offshore
- Yachts
- Recreation
- Consumer electronic