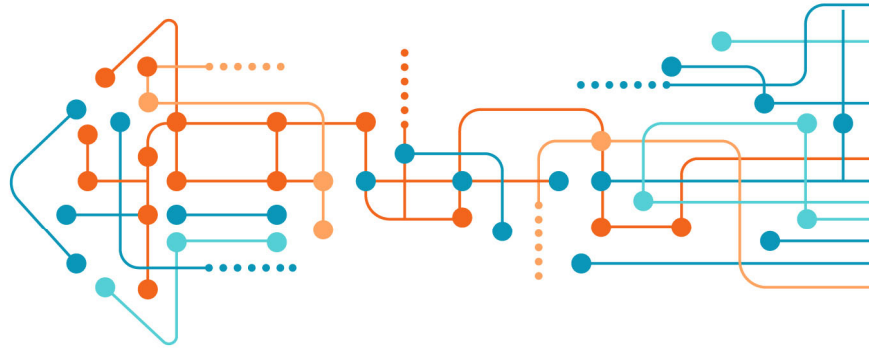




Data Gathering Gateway

Model: thingsML-DGN01, DGN01-TH, DGN02, DGN02-TH

Product Description

Data Gathering Gateway Node (DGN) is a key element of wireless networks where it collects and aggregates data from sensors and devices and communicates it to the server or cloud. Vicinia DGN collects data from all other Vicinia IoT nodes, such as asset tags, wearable tags, wearable cards and environment sensors. Vicinia DGN also supports mobile phone applications with Vicinia Indoor Positioning SDKs with its beaconing technology. Vicinia DGN collects the data on Bluetooth 4.0/5.0 and communicates it over WiFi to the cloud for further analysis and use in applications. Vicinia DGN also supports Vicinia Data Gathering Beacons operating in a mesh network serving as the main gateway to the cloud. In case of an intermittent Internet connection, to ensure data integrity, Vicinia DGN stores the received data and retransmits it when the connection to the server resumes.

Features

- Wirelessly collects data from smart devices over BLE4.0/5.0
- Aggregates and communicates data to the cloud over WiFi
- Stores data and retransmits in case of intermittent Internet connectivity
- Over-The-Air (OTA) firmware and configuration update
- Supports online performance monitoring
- Supports real-time distributed clock synchronization
- Advanced logging of DGN hardware and software status
- Measures ambient temperature and humidity
- Supports indoor positioning with beaconing functionality



DGN for indoors – DGN02, DGN02-TH

Technical Specifications

- Supports BLE4.0/5.0
 - Range: 50m in open area
- Supports WiFi 802.11bgn 2.4GHz
 - Range: Receive 300m in open area
 - Range: Transmit 75m in open area
- Size: 120mm x 68mm x 42mm
- Operating Temperature: -25 °C ~ 70 °C
- Storage: 32GB, Up to 256GB
- Power: 100-240V, 50-60Hz, 0.35W (max)
- Sensors: Temp. & humidity (DGN01-TH, DGN02-TH only)



DGN for outdoors – DGN01, DGN01-TH

