ManageBOX BLUEGATE IoT Gateway for Bluetooth Low-Energy Applications



ManageBOX-BLUEGATE is an IoT gateway designed for tracking applications (asset, people tracking) using Bluetooth Low-Energy based active tags.

ManageBOX-BLUEGATE captures Bluetooth advertise packets and sends to a pre-defined server with RSSI value. Packets can be filtered using fields of BLE packet content.

Server connection is established using optionally WiFi or 4G cellular connection, or using both as main and backup connections.

A static TCP connection is established to stream tag data in real-time to server, using a special protocol.

Automatic connection switching (WiFi - 4G) and automatic restart mechanisms used to ensure uninterrupted, reliable operation.

Automatic remote firmware update via

• Serial (TTL) command line interface for

Crimp type connector for I/O expansion

Physical dimensions: 76 x 112 x 26mm

FTP (from configured FTP server)

configuration and debugging

and TTL console uart

ABS plastic housing

Power input: 5V - 1A DC adaptor

Technical Features

• Bluetooth subsystem is based on Nordic's industry standart NRF52 system-on-chip

• Bluetooth support: BLE 4.2 (firmware upgradable to BLE 5.2)

- Server connection:
 - WiFi support
 - Optional cellular backup support
- WiFi :
- 2.4GHz, 802.11b/g/n support
- Fixed IP or DHCP support
- Cellular (optional):
 - 2G + 4G support
 - External SMA antenna
 - Push-push type SIM holder
 - APN, user/pass configuration
- TCP-IP protocol support : TCP, , FTP, HTTP



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