

ivantoCore Smart Communication Module

The **ivantoCore** smart communication module enables bidirectional communication between smartphones and public transport vehicles to allow direct user-vehicle and operator-vehicle interaction.

ivantoCore receives and decodes IBIS-protocol messages provided by the board computer to broadcast vehicle information via Bluetooth® advertising to smartphones.



ivantoCore offers the following functions and features:

Functions:

- User-to-vehicle interaction for accessibility (included)
 - Vehicle radar – detecting public transport vehicles nearby
 - Toggle stop and other in-vehicle service requests
 - Trigger acoustic door location signal
- Wireless Communication (included)
 - WLAN Connect - exchange vehicle data on-site in the depot
 - WLAN Access Point - WiFi Internet connection for passengers
 - LAN Access Point – Ethernet Internet connection for vehicle components
- Data-driven Services (optional)
 - Live-tracking of vehicles with onboard GPS for ITCS (Intermodal Transport Control System) *light*
 - BiBo (Be-in/Be-out) data - reliable passenger travel data for mobile ticketing and more
 - Automated passenger counter by WiFi Scan for transit service planning and reporting
 - ECO driving - driver behavior monitoring to reduce costs and improve safety
 - Access to CAN bus vehicle status data via FMS interface for fleet management

Hardware Features:

- Computer-on-module (Cortex A5 500MHz, M4 167 MHz)
- Two Bluetooth® 4.0 modules and IBIS decoder
- Two WLAN modules with onboard aerial (external aerial optional)
- Ethernet and USB hub (type A plug)
- 4G cellular module (optional)
- GPS, temperature and acceleration sensors
- SMA external aerial connector for GPS and cellular module (external aerial included)
- CAN/FMS interface for fleet management systems
- Five input line connection jacks (e.g. to detect door status)
- Five output line connection jacks (e.g. to toggle service request)
- Audio output (with amplifier) and audio input
- Door location speaker (optional)
- Remote over-the-air firmware updates and continuous functional check (keep-alive signal)
- Dimension W x H x D (in mm): 220 x 220 x 50,5

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ivanto, a product by GeoMobile

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