



ivantoConnect Smart Communication Module

The ivantoConnect is a smart communication module for public transportation vehicles and stops; it was initially conceived for user-vehicle interaction via Bluetooth with transport accessibility in mind.

ivantoConnect offers various options for establishing an internet connection (LTE, WLAN, Ethernet). This enables numerous services, like WLAN hotspots for passengers, data collection, module networking and remote vehicle-access.

Features:

- User-vehicle interaction for passengers through the App
 - Vehicle radar – Detection of nearby public transport vehicles
 - Stop requests and other in-vehicle services
 - Triggering of acoustic door-location signals
- Wireless Communication
 - WLAN Client – Real-time data collection at the depot
 - WLAN Access Point – Wireless internet connection for passengers
 - LAN Router – Ethernet internet connection for vehicle components
- Data-driven Cloud Services (optional)
 - Live-tracking of vehicles through GPS for ITCS (Intermodal Transport Control System)
 - BiBo (Be-In/Be-Out) data – Reliable passenger travel data for mobile ticketing and more
 - Automated passenger count via WLAN scanning for planning and reporting purposes
 - ECO Driving - Driving-behavior monitoring to reduce costs and improve safety
 - Access to CAN bus (Controller Area Network) vehicle status via FMS (Fleet Management System) interface

Hardware:

- Dual-Core, 1 GHz, ARM Cortex A7, 1GB DDR3L RAM, 4GB eMMC
- Accelerometer
- Cellular / GPS Module (up to 2x)
 - GSM/UMTS/LTE, Cat 4, 2x2 MIMO
 - GPS / GLONASS / Galileo / Beidou / QZSS
- WLAN / Bluetooth Module (up to 2x)
 - Dual Band 2.4/5 GHz, 802.11 ac/a/b/g/n, 2x2 MIMO, 866.7 Mbps
 - Bluetooth 5
- Ethernet (up to 2x 5-Port-Switches)
 - 1000BASE-T/100BASE-TX/10BASE-T IEEE 802.3
- IBIS (Integrated onBoard Information System) Decoder
- FMS Interface
- Galvanically isolated input
 - 4x Multipurpose connections, 5-36 Volt
- Galvanically isolated output
 - 5x Relay connections
- Audio (up to 2x)
 - 2x 15 W Class-D amplifier outputs (4/8 Ohm)
 - 1x Mic Mono, 1x Line-In Mono
- Dimensions: 285 mm x 102 mm x 109 mm



A product by GeoMobile GmbH

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