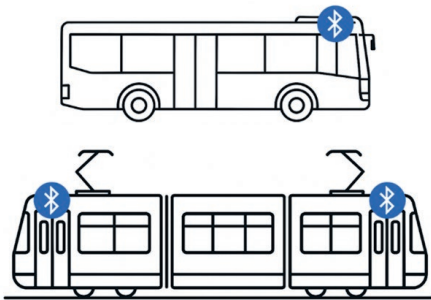


The bridge between passenger and vehicle

ebblo Assist Bluetooth Access Point

The ebblo Assist Bluetooth Access Point (BAP) is the central link within the system. It receives commands from ebblo Assist handheld transmitters and smartphones running the “INTROS ÖV Radar” app and forwards them to the Acoustic Box via MQTT.



Within the overall ebblo Assist system, the BAP acts as a beacon transmitter to signal the presence of the vehicle and to broadcast key information such as route and destination, as well as current and upcoming stops. It receives encrypted boarding, alighting and announcement requests from apps and handheld transmitters and forwards them to the Acoustic Box.

Key features

- **Interface:** Connects Bluetooth devices (handheld transmitters, smartphones) with the Acoustic Box (via BLE and MQTT).
- **Security:** Integrated misuse protection and encrypted communication prevent unauthorised manipulation.
- **Flexibility:** Multiple BAPs can be installed per vehicle or train set to ensure sufficient coverage and capacity. For optimal support of ebblo Assist, installation of one BAP per door area is recommended for rail vehicles.
- **Information:** Broadcasts advertisements containing route, destination and next stops (openly receivable).
- **Commands:** Transmits encrypted commands to the Acoustic Box.
- **Maintenance-friendly:** Supports remote updates and comprehensive diagnostic reporting (health status, software version, configuration) for central monitoring.



Variants

- Indoor (standard): For installation inside the vehicle.
- Outdoor / roof-mounted (on request): For installation on the vehicle roof or outdoors.

Technical specifications

General

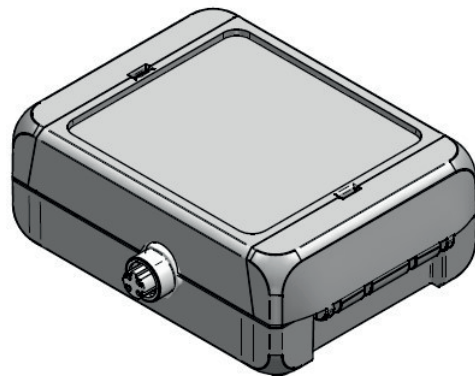
- Product designation: LOC.id BT2LAN
- Material: ABS
- Colour: Anthracite grey
- Dimensions (W × H × D): 113 mm × 80 mm × 40 mm

Connectivity

- Bluetooth: BLE 5.0 (GATT, advertising), up to 10 parallel GATT connections
- Network: Ethernet with JSON over MQTT, supports DHCP or static IP

Power supply

- Power over Ethernet: IEEE 802.3af Class 0 PoE PD, Mode A
- Connector: M12 4 pin connector with D coded RJ45



Environmental conditions & standards

- Operating temperature range: -25 °C to +70 °C
- Protection class: III
- Railway standards: EN 50155 (electronic equipment on rail vehicles)
- Fire protection: EN 45545
- Quality: Manufactured according to ISO 9001 standards
- Ingress protection: IP43 (outdoor variants available on request)

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