

# OMR-1734

## On-Board Unit Mobile Reader



The OMR-1734 is a compact, self-contained handheld device for communication with on-board units (OBU) and transponders (TRP) based on the European Standard for Dedicated Short Range Communication (DSRC) CEN TC278. Full compliance to this standard secures interoperability with other systems. The OMR-1734 comprises an LCD touch screen display and programmable buttons which allow the user to control the device.

### Product Description.

The OMR-1734 is part of the TS3200/09 System of Kapsch TrafficCom communication devices which are intended for CEN DSRC 5.8 GHz based applications.

The main feature of the OMR-1734 is to automatically identify and report the identity and the data content of readout OBUs or TRPs. This information is stored onto the OMR-1734 and presented to the user via the LCD touch screen.

The operator may move freely with the OMR-1734 in hand and readout data from OBUs/TRPs (e.g. in parked vehicles). To obtain the desired data the OMR-1734 needs to be held approximately 3 meters from the OBU/TRP of interest. The data transferred to the OMR-1734 provides

details about the latest 20 transactions performed by that OBU/TRP.

The OMR-1734 may be operated completely standalone without connection to the central system database.

Full functionality requires, however, contact to that database. The standard way to establish that contact is done either via a GSM/GPRS-link or via a WLAN-link in combination with a WLAN Access Point, to the central system.

### Features

- Easy manageable mobile hand device
- Readout functionality for OBUs/TRPs at a distance up to approximately 3m
- User friendly GUI
- Interoperable with CEN DSRC 5.8 GHz standards based equipment from different

- OBU/TRP manufacturers
- Software Interface easily manageable for customer adaptations
- Free programmable action side and triangular buttons
- Rain resistant, robust and compact housing complying IP54



## Technical features

### Mechanical

- Dimensions 230 x 94 x 70 mm
- Weight 0.73 kg
- Enclosure: Plastics

### Environmental data:

- Storage temperature: -20°C to +60°C
- Operating temperature: -10°C to +60°C
- Humidity: IP54

### Electrical data DSRC:

- Frequency band: 5.795 – 5.815 GHz, channels configurable
- Radiated power: < 23dBm EIRP
- Main battery: Rechargeable Li-Ion battery 4800mAh / 17.8Wh
- Backup battery: Rechargeable Li-Ion battery 750mAh / 2.8Wh

### Electrical data WLAN/GSM/GPRS/GPS/ Bluetooth/Bar Code Reader (BCR):

- WLAN specification: 802.11b/g
- GSM/GPRS: 900/1800/1900, GPRS multi-slot class 10, 1xSIM (option)
- GPS: 16 channel, DGPS & SBAS support (option)
- Bluetooth: class 2, internal antenna
- IrDA: 115 kbps
- BCR: 1D laser scanner or 1D/2D CMOS image scanner (option)

### Electrical Data Gotive H42 (basic device):

- Supply Voltage External: adapter 12/24 VDC
- Docking Station: 100 – 240 VAC, 47 – 63Hz, 50 + 60Hz

### Security:

- DES, 3DES, AES (option)

### Technical data:

- CPU: Intel XScale™ PXA 270 @ 520 MHz
- Memory: 1GB flash memory, 128 MB RAM
- Operating system: Windows® CE Pro 5.0
- Display: 6.2" colour TFT HVGA LCD (640x240) with touch screen

### Accessories:

- Multi charging station (parallel charging of up to 10 OMRs)
- Single docking station (includes e.g. USB IF)
- Car charging adapter 12/24 VDC
- Carrying cases and hand straps (for safe and hands-free carrying)

## Kapsch Group

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