

OBU GO Sat

GNSS/CN and DSRC hybrid On-Board Unit



OBU GO Sat is an On Board Unit (OBU) for toll payment using both satellite technology, by sending geolocation data to the central platform via 4G LTE Cellular Network, and DSRC technology. Vehicle localization and route monitoring also allow it to be used for emergency fleet management and for heavy vehicle and urban public transportation tracking.

OBU GO Sat can be used in France, Spain, Portugal, Italy and in any other contexts that comply with the CEN standard (thanks to DSRC technology on board) or when travelling in countries that use GNSS toll collection systems. The OBU automatically recognizes the correct toll context of the country crossed and selects the right tolling standard protocol. This greatly simplifies the use of OBU GO Sat.

INSTALLATION

OBU GO Sat is very easy to install as it doesn't need to be connected to any odometer or tachograph. The driver just has to use the adhesive tabs already supplied to mount it on the windshield.

The system can withstand all mechanical vibrations normally found in a vehicle over its operating temperature range. To power the OBU, it can be connected to vehicle power supply (8V – 32V) or simply plugged into the cigarette lighter.

KEY FEATURES

- Integrates a DSRC communication module for standard applications (CEN and UNI), as well as LAC and CCC for support applications in GNSS-based toll contexts
- Updates “over the air” (OTA)
- Support Bluetooth 5.0 protocol and NFC/Rfid
- Embedded flash memory for multiple applications: 128 MByte DDR2 memory and 2 Gbyte eMMC non-volatile memory
- 2,8” Color Capacitive Touch display
- USB port to interface with other devices
- CE & RoHS compliant

OBU GO Sat

The OBU GO Sat is equipped with a color touch display, a buzzer and LEDs that help the driver, providing the most important data (such as the OBU status) or receiving messages from the Service provider.

Furthermore, OBU GO Sat supports Bluetooth and NFC/RFid technology. All that to ensure the easiest and most comfortable use of the OBU GO Sat during the journey.



TECHNICAL FEATURES

Casing

- ⊙ Material: ABS Plastic Case
- ⊙ Size: 150 x 100 x 36 mm
- ⊙ Weight: 280 g
- ⊙ Enclosure: IP40

Installation

Mounting bracket fixed on windscreen using adhesive tabs

Power Supply

- ⊙ **Fixed Installation:**
 - ⊙ Connection via terminal 30, 15 and GND.
 - ⊙ Operating power supply: 8÷32V
- ⊙ **Temporary Installation:**
 - ⊙ Connection via cable plugged into the cigarette lighter using a 3A fuse.
- ⊙ **Internal battery:** One-cell LiFePO4 rechargeable battery. Capacity: 600 mAh

Memory

- ⊙ RAM 128 MByte DDR2
- ⊙ 2 Gbyte NAND Flash e-MMC

Human machine interface

- ⊙ **Display:** 2,8" Color touch Display, 320 x 240 pixel
- ⊙ **Buzzer:** configurable
- ⊙ **LEDS:** 3 leds (blue for power supply, red and green for other applications).
- ⊙ **Button:** 1 configurable
- ⊙ **Bluetooth:** 5,0 type supported
- ⊙ **NFC/RFID:** dynamic tag
- ⊙ **Wired interface:** USB port to interface with other devices

DSRC compliance

- ⊙ EN 15509
- ⊙ EN ISO 14906
- ⊙ ETSI 200 674-1
- ⊙ UNI10607
- ⊙ CEN ISO/TS 12813
- ⊙ CEN ISO/TS 1314 + A1

DSRC Communication

- ⊙ Microwave module with integrated antenna