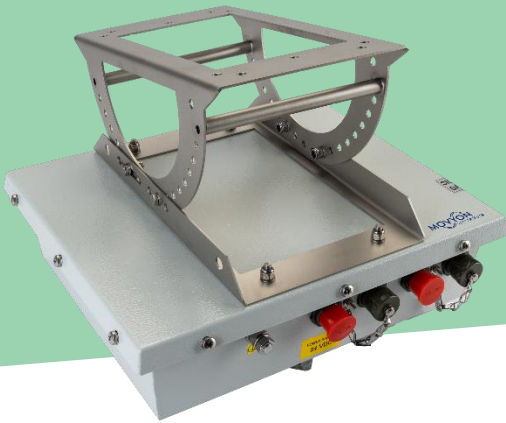# MOVYON
ELECTRONICS

DSRC RSU

Radio frequency antenna capable of communicating with on-board equipment according to the standards: EN 15509, ETSI ES 200 674-1 and UNI 10607. This device belongs to a family of antennas capable of meeting multiple needs such as, for example, traffic monitoring, access control, toll collection, and enforcement.

TECHNICAL FEATURES

RF SECTION EN 15509

RECEIVER

- ⊙ Receiver Sensitivity: < -104dBm
- ⊙ Subcarrier Frequencies: 1.5 – 2 MHz
- ⊙ Subcarrier Modulation: 2-PSK
- ⊙ Data Coding: NRZI
- ⊙ Bit Rate: 250kbps

TRANSMITTER

- ⊙ Power Output: ≤+33dBm EIRP
- ⊙ Carrier Modulation: 2-ASK
- ⊙ Data Coding: FM0
- ⊙ Bit Rate: 500 kbps
- ⊙ Carrier Frequencies: F1 5797.5 MHz; F2 5802.5 MHz; F3 5807.5 MHz; F4 5812.5 MHz

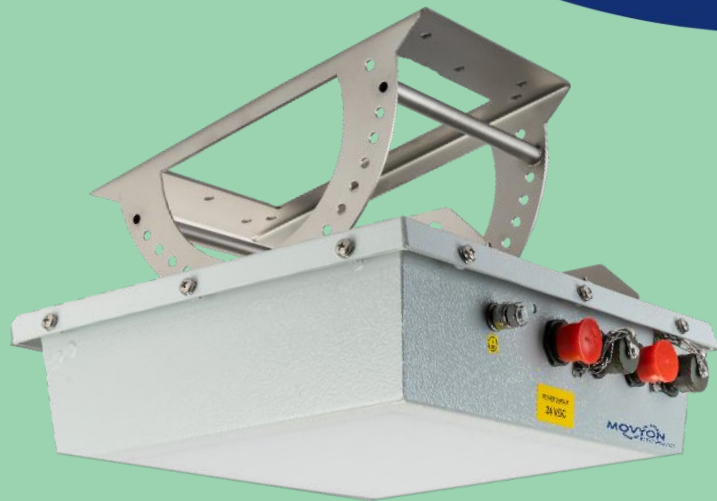### RF SECTION ETSI ES 200 674-1 and UNI 10607

RECEIVER

- ⊙ Receiver Sensitivity: <-98 dBm
- ⊙ Subcarrier Frequencies: 10,7 MHz
- ⊙ Subcarrier Modulation: FSK
- ⊙ Data Coding: Manchester
- ⊙ Bit Rate: 144 Kbps

TRANSMITTER

- ⊙ Power Output: ≤ +21 dBm
- ⊙ Carrier Modulation: OOK
- ⊙ Data Coding: Manchester
- ⊙ Bit Rate: 921 Kbps
- ⊙ Carrier Frequencies: 5,8 GHz

DSRC RSU

DIGITAL BOARD

- CPU: Dual Core Cortex A9
- RAM: 512 MByte
- 8 GByte eMMC
- EEprom: 512 KBit
- Ethernet: 1 Gbit
- 3 axis accelerometers
- Silicon ID
- 1 microSD Card
- Temperature sensor
- RTC + SuperCap
- 3 configuration inputs
- 6 LEDs

INSTALLATION

- The unit is designed to be installed in the center of an access/exit lane

- The installation parameters and coverage/dialogue area with the on-board equipment are different depending on the type of application and antenna model

DIMENSIONS AND SPECIFICATIONS

- Supported power supply:
  o 230 VAC ±10% (< 25W)
  o PoE: IEEE 802.3 AT/BT Class 4 (48 Vdc max 20 W)
  o 24 VDC (< 20W)
- Weight: ~5 kg
- Degree of protecion: IP65
- Operating temperatures: -40/+55 °C
- Storage temperatures: -40/+70 °C

KEY FEATURES

- DSRC Standard.
- Linux Operating System.
- Full transaction management
- Ability to operate in transparent mode.
- Contains no moving parts.
- High speed of replacement