

Smart Antenna Italy 2.0

Radio frequency device capable of communicating with onboard units (OBU) in compliance with the UNI 10607 standard. It is equipped with input/output pins for managing external devices and features a Bluetooth interface. Its characteristics make it particularly suitable for use in parking areas for vehicle parking fee collection.



TECHNICAL FEATURES

RF SECTION

RECEIVER

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

TRANSMITTER

- Power Output: ± 10 dBm
- Carrier Modulation: OOK
- Data Coding: Manchester
- Bit Rate: 921 Kbps
- Carrier Frequencies: 5,8 GHz [5795 MHz, 5805 MHz]

DIMENSION AND SPECIFICATIONS

- Power supply: 24 Vdc
- Absorption : < 20 W
- Weight: ~ 2 kg
- Dimensions: 338x338x75 mm (WxLxH)
- Degree of protection: IP65
- Operating temperatures: $-30/+70$ °C

ANTENNA

- Polarization: linear
- Gain: 20 [dBi]

DIGITAL CARD

- CPU: Dual Core Cortex A9 + FPGA
- RAM: 512 MByte
- eMMC: 8 GB
- EEPROM: 512 Kbit
- RS232C: 2 serial line
- Temperature sensor
- 1 Gbit Ethernet
- GPS module
- LTE module
- Bluetooth 5.0 Dual Mode module

INSTALLATION

Pole installation along the access/exit lane, both sides. Can be adjusted both horizontally and vertically using the supplied bracket. Wiring can be carried out directly via a convenient rear flap.

KEY FEATURE

- Linux Operating System
- Full transaction management
- Crypto Processor
- Silicon ID
- SD Card Slot
- RTC con SuperCap
- Contains no moving parts
- High speed of replacement