

RSE620 PARKING AND ACCESS DSRC TRANSCEIVER

- Small and robust DSRC transceiver for all-weather use (indoor and outdoor)
- 'Instant-on' application start-up from power on within milliseconds
- Ultra-low power consumption
- Can use battery power, solar panels or other sources where mains power is not available



OVERVIEW

The RSE620 is a small, lightweight CEN TC 278 DSRC-compliant transceiver intended for parking and access control applications. Its ultra-low power consumption makes it ideal for all type of access applications, including for areas where mains power is not available.

The transceiver may be run from a variety of power sources such as batteries, solar panels or wind turbines.

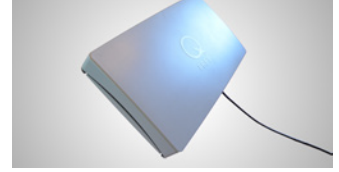
The RSE620 has an ultra-fast response time. The unit is ready to interact with an OBU only milliseconds after power-up.

The RSE620's standalone embedded application enables easy integration to any access system without previous experience with the DSRC protocol and standards. For standalone embedded applications, the RSE620 may also be equipped with a Secure Application Module (SAM) for secure DSRC key management.

The RSE620 is also fully backwards-compliant with the earlier MD5859 DSRC transceiver serial protocol, allowing easy drop-in replacement without changes to the parking controller application.



PRODUCT SHEET



FEATURES

- Ultra-low-power and fast response time
- Power consumption (@ max EIRP) <4W
- Power consumption (standby) <1W
- Wake up from standby <10ms

COMPLIANCE

- Full compliance with CEN TC278 DSRC standards
- Fully backwards-compatible with MD5859 serial protocol

MULTI-APPLICATION SUPPORT

- Supports multiple and custom applications (elements)
- EN 15509/SmartDSRC/PISTA/TIS/ST1-Chile/GSS/A1/OGS
- For standalone embedded applications, may also be equipped with a Secure Application Module (SAM) for secure DSRC key management
- Available with fully transparent DSRC software according to the MD5859 serial protocol

ACCESSORIES INCLUDED

- Cable terminated with connector and open in other end
- 24V DC power supply with Euro plug for AC connection
- Flexible bracket for optimal installation in all environments



RSE620 in parking application

COMMUNICATION INTERFACE

- RS-232 data communication

SMALLEST PARKING AND ACCESS DSRC TRANSCEIVER AVAILABLE

- Size: 170 x 310 x 40 mm (L x W x D) without bracket
- Weight: 1.1kg
- Environmentally friendly: Small size, low weight, and ultra-low power consumption

TECHNICAL SPECIFICATIONS

Operating frequency: 5.7975, 5.8025, 5.8075 and 5.8125GHz
Downlink bit rate: 500kbps
Uplink bit rate: 250kbps
Sub-carrier frequencies: 1.5MHz (profile 0) and 2.0MHz (profile 1)
Communication zone (W x L): 3.5 x 4.5m @ 6m height (typical)
Antenna polarization: Left-hand circular
Maximum radiated power: +33dBm EIRP (software-adjustable)
Input voltage: 6–24V
Data communication: RS-232
Max power consumption: < 4W (@ max EIRP)
Power consumption (stand by): < 1W
Wake up from standby: < 10ms
Operating temperature: -33°C to +55°C (ambient temperature)
Storage temperature: 0°C to +40°C
Connector: Phoenix M8 IP65
Cable: Robust halogen-free PUR cable
Weight: 1.1kg

Size: 170 x 310 x 40mm
IP grade: IP65
Mounting: Adjustable wall-mount bracket
Material: Coated aluminum/ABS plastic radome
Color: Light Grey (RAL7535)
Standards: CEN TC 278 DSRC
EN 13372
EN 12253 Physical layer
EN 12975 Datalink layer
Safety Applications: EN 60950-1
ISO 14906/EN15509 EFC application
ISO 17264/EN 16312 ERI application
Compliance to EU Directives: R&TTE 1995/5/EC
EMC 2004/108/EC
LVD 2006/95/EC
RoHS 2011/65/EU
WEEE 2012/19/EU

www.q-free.com

For more information contact marketing@q-free.com

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LEADING THE WAY