

RSE622 HANDHELD DSRC TRANSCEIVER

- Rugged handheld CEN DSRC transceiver for use by enforcement personnel
- Optimized for enforcement applications
- Bluetooth interface for easy connection to smart devices
- Multiple HMI sources – LED, Buzzer, Vibration



OVERVIEW

The Q-Free RSE622 CEN DSRC Transceiver is a small advanced handheld multi-protocol 5.8 GHz CEN DSRC transceiver. It is designed for automatic registration, identification and communication with stationary vehicles equipped with any CEN compatible DSRC microwave communication tag.

RSE622 is designed to operate from the internal battery for at least a working day, under all climatic conditions, communicating with a host computer or a smart device through a Bluetooth connection.

The RSE622 provides full standalone transaction model capability and comes with a C++ client library and example code for easy integration.



PRODUCT

FEATURES

- Ultra low-power and fast response time
- Typical 10 hours of active operation
- Standby operation for minimum 24 hours
- Maximum charging time 3 hours

Compliance

- Full compliance with CEN TC278 DSRC standards
- Bluetooth Qualified Design
- Backwards compatible with MD5859 protocol

Size

- Smallest handheld DSRC reader on the market
- Low weight

Ease of use

- Activation of reader by lifting it to an upraised position
- Configurable "auto-read" function
- Easy pairing with Bluetooth devices

Multi-application support

- Supports multiple and custom applications (elements)
- EN15509/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



TECHNICAL SPECIFICATIONS

Operating frequency	5.7975, 5.8025, 5.8075 and 5.8125 GHz	IP Grade	IEC 60529, class IP65
Downlink bit rate	500 kbps	Material	ABS plastic with shock-absorbing rubber
Uplink bit rate	250 kbps	Color	Black (RAL9004) and Red (RAL 3028)
Sub carrier frequencies	1.5 MHz (profile 0)	Standards:	
Antenna Polarization	Left hand circular	CEN TC278 DSRC	EN 13372
Maximum radiated power	+ 21 dBm EIRP (SW adjustable)		EN 12253 Physical Layer
Input voltage	5 Volt		EN 12975 Data Link Layer
Data Communication	Bluetooth 2.1 class B		EN 12834 Application Layer
	USB 2.0	Safety	EN 60950-1
Max power consumption	< 2,5 W (@ max EIRP)	Human exposure	
Power consumption (standby)	< 0,5 W	Electromagnetic radiation	EN50392:2004
Communication distance	2-3 meters @ 45 degree angled windscreen	Applications	ISO 14906 / EN15509 EFC Application
	3-4 meters @ vertical windscreen		ISO 17264 / EN 16312 ERI Application
Operating Temperature	- 20°C to +60°C (Ambient temperature)		ISO 13141:2015 LAC
Charging and storage temperature	0°C to +45°C		ISO 12813:2015 CCC
Connector	Micro-USB-B receptacle, water proof	Compliance to EU directives	R&TTE 1995/5/EC
Weight	150 gram		EMC 2004/108/EC
Size	141 x 69 x 18 mm		LVD 2006/95/EC
			RoHS 2011/65/EU
			WEEE 2012/19/EU

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VS.05.10.15

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