



WAVE RSE

Wireless Access in Vehicular Environments

■ Features

- Single or Dual Channel IEEE 802.11p Radio
- 5.800 to 5.925GHz Operating Frequencies
- 100mW Maximum Transmit Power (@Port)
- EVM of 3.5%(-29dB) at 64QAM(27Mbps)
@Pout of 19dBm
- -95dBm Minimum RX Sensitivity
- Fully Hardware Implemented IEEE 802.11p PHY
and IEEE 802.11 MAC
- Support WAVE Standards
 - IEEE 802.11p
 - IEEE 1609.3 / 1609.4
- Antenna
 - Polarization : Vertical
 - Gain 12 dBi (Typ.) / VSWR 1.5:1 (Min.) / Impedance 50 ohm
- Application
 - WAVE Safety RSE for Cooperative ITS
 - WAVE Smart Tolling RSE for Multi Lane & Single Lane

WAVE RSE



WAVE Ant.

■ Description

eSys WAVE Road Side Equipment (RSE) consists of **IEEE 1609.3/1609.4 software** solution integrated with **GPS** and high-power **802.11p radios**

It is designed for **safety information service and includes remote monitoring program** and user convenient service for about **1km radius boundary**

And it is possible to classify the lanes for **Smart Tolling System** using specialized RF & SW technology.

The RF is optimized for 5.850 to 5.925GHz operating frequencies and meets **IEEE 802.11p Class C spectrum mask**.

■ Function

- Fast Channel Switching Support
- Exclusive Packet Control
 - TX Power Control and Datarate per Packet
- Fully IEEE 802.11p Mandatory and Optional Baseband Modulation Scheme Support
 - BPSK, QPSK, 16QAM, 64QAM (supports 3,4.5,6,9,12,18,24,27Mbps)
- Support for WSA, WSMP, IP and TA
- Multi Channel Switching using Single Radio or Dual Channel Radios
- Support for Multiple Priority Queues
- Remote Application Support
- Support to classify the lanes for Multi lanes Smart Tolling System



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▪ Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

▪ Wireless 5 GHz Band Statements:

This equipment could only been operated at 5860-5920 MHz frequency band.

▪ Product info

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▪ FCC ID

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