

Savari SW-1000 Road-Side-Unit (RSU)

Datasheet



Savari is the leading vendor of DSRC-based RSEs in ITS test beds and commercial applications. The Savari StreetWAVE™ has proven its reliability from the freezing cold of a Michigan winter to the extreme heat of an Arizona summer. It offers multiple configuration options for DSRC radios, Wi-Fi and GPS, and is compliant with the United States Department of Transportation (USDOT) RSE v4.1 specification. The StreetWAVE comes with the most thoroughly tested and highly regarded RSE software. The Ann-Arbor Safety Pilot Model Deployment uses Savari RSUs exclusively, and it is also used by CAMP-V2I.



Key Features

Mobility

- Ease of implementation and deployment
- Ease of configuration
- Sturdy mechanical design

Features

- On-board GPS for location services and synchronization
- PoE with full surge protection
- FCC certified
- USDOT rQPL vendor
- Available SDK for application development
- Available remote management support
- PCAP logging and error reporting including support for message
- Optional slot for mPCI cards

DSRC Message support

- WSA broadcasts
- Traveler information messages
- Roadside alert
- SPaT, SRM messages
- GID/MAP messages
- RTCM messages

Standard support

- IEEE 802.11p
- IEEE 1609.2
- IEEE 1609.3
- IEEE 1609.4
- SAE J2735
- NTCIP
- USDOT v4.1 RSU specification

Networking

- IPv6 and IPv4 support
- SIT tunnel support
- SSL
- SSH
- TLS

Applications

Selected V2I Safety (sample)

- I2V - Traffic signal violation warning
- I2V - Curve speed warning*
- I2V - Left turn assistant
- I2V - Stop sign movement assistance
- I2V - Red light violation warning*
- I2V - Reduced speed zone warning*

*Savari RSUs used by CAMP-V2I

Components

Processor

Memory

Storage

DSRC Interfaces

GPS

HSM

Power Rating

Power Consumption

Temperature

Dimensions

Antenna Connectors

LED's

Standards Compliance

FCC Compliance

Traffic Controller Compatibility

Accessory Kit (optional)

SDK (sold separately)

800 Mhz, iMX6 dual core

1 GB DDR DRAM

8 GB Flash

Dual radio support

U-Blox tracking sensitivity -160dBm

Infineon SLI 97

IEEE 802.3 at PoE

<10W

-35C to +75C

8" (L) x 8 1/2" (H) x 2 3/4" (D)

N-Type Male (DSRC) & SMA (GPS)

Power, Status & Diag

USDOT RSU v4.1 specification

FCC, CFR 47 Part 90

Compatible with NTCIP compliant traffic controllers

Pole mounting kit PoE (power over ethernet) controller kit

Available for rapid deployment and testing of connected vehicle applications. Sample applications are available through a comprehensive programmers guide.