

Savari SW2000 C-V2X Road-Side Unit (RSU)



Savari is the leading vendor of DSRC-based RSUs in ITS test beds and commercial applications. The **Savari StreetWAVE™ SW2000** is based on the SW1000 DSRC RSU and is capable of providing **C-V2X (PC5)** as well as **DSRC** connectivity. It offers multiple configuration options for V2X radios, optional Wi-Fi and GNSS, and is based on the United States Department of Transportation (USDOT) RSU v4.1a specification. The RSU is based on the industry's first C-V2X development in close partnership with the leading C-V2X chipset vendor and field tests and demonstrations in partnership with 5GAA and leading Automotive OEMs. Savari RSUs have been used by industry leading test-beds and US-DOT pilots like the Ann-Arbor Safety Pilot Model.



Key Features

Mobility

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

Features

- Configurable for C-V2X or DSRC
- On-board GPS for position and timing synchronization
- PoE with full surge protection
- FCC certified* (*Currently for DSRC only)
- USDOT rQPL vendor
- Remote management support
- Remote device and application health monitoring, message and event logging
- Optional support for WiFi

DSRC Message support

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

Standard support

- IEEE 802.11p - 2012
- IEEE 1609.2 - 2016
- IEEE 1609.3 - 2016
- IEEE 1609.4 - 2016
- SAE J2735 - 2016
- NTCIP 1202/UDP-Push* (select traffic controllers)
- USDOT v4.1a RSU specification (*DSRC only)

Networking, Administration and Management

- IPv6 and IPv4 support
- SIT tunnel support
- SSL, SSH, TLS
- Web Graphical User Interface
- Interoperable with US-DOT CAMP SCMS

Applications

Selected V2I Safety (sample)

- I2V - Traffic signal violation warning
- I2V - Curve speed warning*
- I2V - Left turn assistant
- I2V - Red light violation warning*
- I2V - Reduced speed zone warning*
- I2V - USDOT SPaT Challenge
- I2V - Traffic Signal Priority

*Savari RSUs used by CAMP-V2I

Components

Processor

800 Mhz, iMX6 dual core

Memory

4 GB DDR DRAM

Storage

8 GB Flash

DSRC Interfaces

Dual radio support

C-V2X Interfaces

PC-5 (Qualcomm MDM 9150)

GNSS

Multi-constellation, -160db sensitivity

HSM

Infineon SLI 97

Power Rating

IEEE 802.3 at PoE

Power Consumption

<10W

Temperature

-35C to +75C

Dimensions

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

Antenna Connectors

N-Type Male (V2X Radio) & SMA (GNSS)

LED's

WiFi (built-in)

Standards Compliance

Power, Status & Diag
USDOT RSU v4.1a specification*
(*Full Compliance for DSRC only)

FCC Compliance

FCC, CFR 47 Part 90* (*DSRC only)

Traffic Controller Compatibility

Multiple traffic controllers

Installaton Kit (included)

Pole mounting kit

Accessory Kit (optional)

PoE (Power over Ethernet) controller