DANLAW
AUTOMOTIVE MADE SMART

Features

Easy to install

On-board GPS for location services and synchronization

PoE with surge protection

Support for custom development

Smart Applications

Traffic Signal Coordination

Emergency Vehicle Management

Law Enforcement Systems

Traffic Monitoring and Control

Access and Parking Systems

Transit Signal Priority

Platooning

Eco-Speed Harmonization

RouteLink Roadside Unit

The Danlaw RouteLink Roadside Unit (RSU) communicates between in-vehicle/mobile devices and transportation infrastructure, such as traffic controller equipment and backhaul networks. It is an essential component of the connected vehicle system that alerts drivers to adverse driving conditions, enables preemption for first responders, and signal priority to buses and service vehicles. RouteLink is available for C-V2X or DSRC systems.
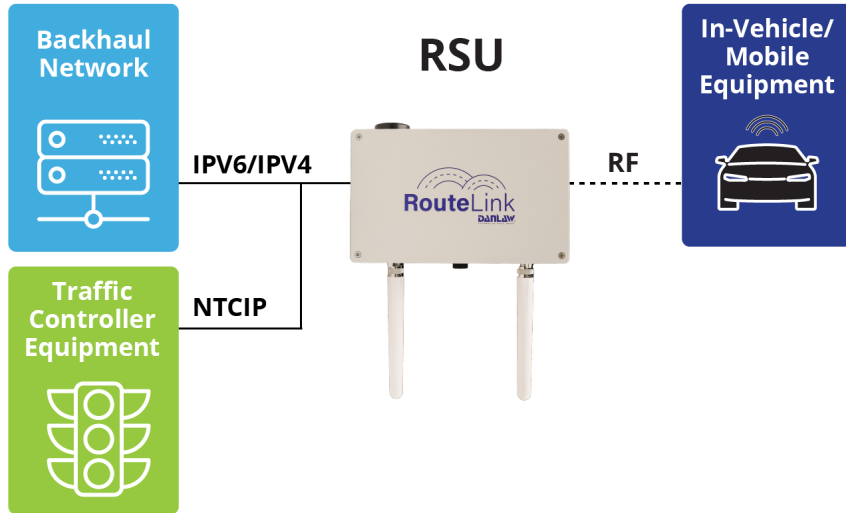
RouteLink utilizes the IEEE 1609 Wireless Access in Vehicular Environments (WAVE) standards to provide IPv6/IPv4 data to remote hosts, while broadcasting and receiving messages, as defined by SAE J2735, to mobile equipment. Locally, connections are provided for traffic controller equipment to be integrated in the system, and for connection to the Traffic Control Center.

Typical Message Support

- WSA broadcasts
- Traveler information messages
- Roadside alert
- SSM and SRM messages
- SPaT and MAP messages
- RTCM messages

V2I Safety Applications

- Red light violation warning
- Traffic signal violation warning
- Reduced speed zone warning
- Curve speed warning
- Intersection movement assist
- Left turn assist

DANLAW
AUTOMOTIVE MADE SMART ®

RouteLink Roadside Unit

Product Specifications

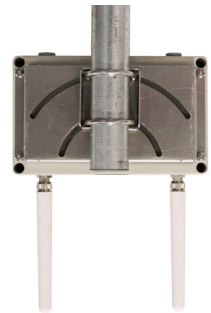|	RouteLink DSRC	RouteLink C-V2X
Dimensions	267 mm x 178 mm x 89 mm	
Temperature	-34ºC to +74ºC	
Processor	800 MHz, iMX6 Dual Core	
Memory	1 GB DDR RAM	
Storage	8 GB Flash	
Interfaces	2 x DSRC, 1 x Ethernet	1 x C-V2X, 1 x Ethernet
GPS	Location and time synchronization	
Hardware Security Module (HSM)	NXP SXA1700	
Power Requirement	IEEE 802.3at POE	
Enclosure	NEMA4X (IP66) rated	
LED Indicators	Power, Status	
Antenna Connectors	2 x N-Type Female	
FCC Compliance	FCC, CFR 47 Part 90	TBD
Traffic Controller Compatibility	Compatible with NTCIP compliant traffic controllers, plus custom options	
Optional Interfaces	IEEE 802.11p, IEEE 1609.2, IEEE1609.3, IEEE 1069.4, SAE J2735, NTCIP, SNMP, USDOT v4.1 RSU specification	IEEE 802.11p, IEEE 1609.2, IEEE1609.3, SAE J2735, NTCIP, SNMP, USDOT v4.1 RSU specification
Standard Support	IPv6 and IPv4 support, SSL, SSH, TLS	

*Mounting Kit and PoE Injector sold separately.

Front View	Side View	Rear View with Bracket on a Pole

RouteLink-DSRC underwent rigorous testing for OmniAir Consortium's Connected Vehicle Certification Program. RouteLink-DSRC adheres to conformance and interoperability standards which are critical to connected vehicle pilot programs.

OMNIAIR
C O N S O R T I U M

Related Products

AutoLink On-Board Unit
Danlaw's V2X On-Board provides 360-degree situational awareness on the road and alerts drivers to potential hazards. Warning notifications can be sent through various display or audible outputs.

SkyLink Through Glass Antenna
Keep drivers safe on the road with Danlaw's dual-radio glass mounted antenna. The antenna is adjustable to most windshield angles and can be easily installed without drilling holes through the vehicle.

Contact Us

Danlaw, Inc.
41131 Vincenti Court
Novi, Michigan 48375 USA
Tel: 1 (248) 476-5571
Fax: 1 (248) 471-4485
sales@danlawinc.com