DANLAW®
AUTOMOTIVE MADE SMART

AutoLink - V2X On-Board Unit (OBU)

Supporting DSRC or C-V2X radios, Danlaw's AutoLink On-Board Unit (OBU) collects real-time driving information from other vehicles and roadside equipment. After easy vehicle installation, it provides drivers with the safety benefits of V2V and V2I applications such as enhanced route information, critical alerts, and safety advice.

Warning messages can be presented by a variety of HMI options, including LED displays, head-up displays, infotainment systems, cellphones, tablets, and audio output.

Typical Product 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

Making Safety a Priority

Drivers receive the safety benefits of V2X applications, including:

- ✅ Forward Collision Warning
- ✅ Intersection Movement Assistance
- ✅ Red Light Violation Warning
- ✅ Control Loss Warning
- ✅ Blind Spot Warning
- ✅ Work Zone Warning
- ✅ Speed Limit Warning

- ✅ Curve Speed Warning
- ✅ Pedestrian Warning
- ✅ Icy Road Warning
- ✅ Lane Change Warning
- ✅ Emergency Communications & Evacuation Information
- ✅ Emergency Electronic Brake Lights Warning

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Product Specifications

	AutoLink DSRC	AutoLink C-V2X
Dimensions	133 mm x 84 mm x 28.5 mm	
RF Connectors	2 x FAKRA (C-Key) V2X , 1 x FAKRA (Z-Key) GNSS	
Connectors	20-pin mixed signal connector, USB, micro USB	20-pin interface connector, USB, micro USB, Ethernet
Physical Interfaces	1 x CAN, 1 x LIN, 2 x analog inputs	
Temperature	-40 ℃ to +85 ℃	
Power	12 or 24 VDC, 400 mA	
Processors	Main - Dual core @ 800 MHz, Secondary – supervisor and vehicle interface	
Memory	8 GB eMMC, 1 GB RAM	
V2X Radios	Dual channel or single channel with diversity	Single channel with diversity
Position Location	GNSS receiver with built-in Dead Reckoning	
Inertial Sensors	3-axis accelerometer, 3-axis gyroscope	
Audio HMI	Stereo driver, microphone input	
Optional Interfaces	4G LTE, CAT1	WiFi, Bluetooth, 4G LTE, CAT1
Front View		
Side View		

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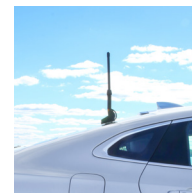

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Related Products

RouteLink Roadside Unit
Danlaw's RouteLink RSU easily adapts to existing traffic infrastructure. It is an essential component of the connected vehicle system that alerts drivers to adverse driving conditions, enables preemption for first responders, and grants signal priority to buses and service vehicles.

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.

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