

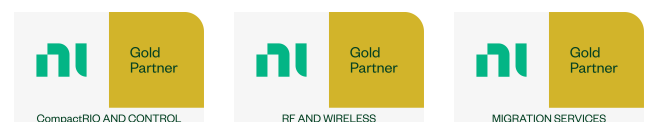
SEA 9719 802.11p V2X Communication Module for CompactRIO™



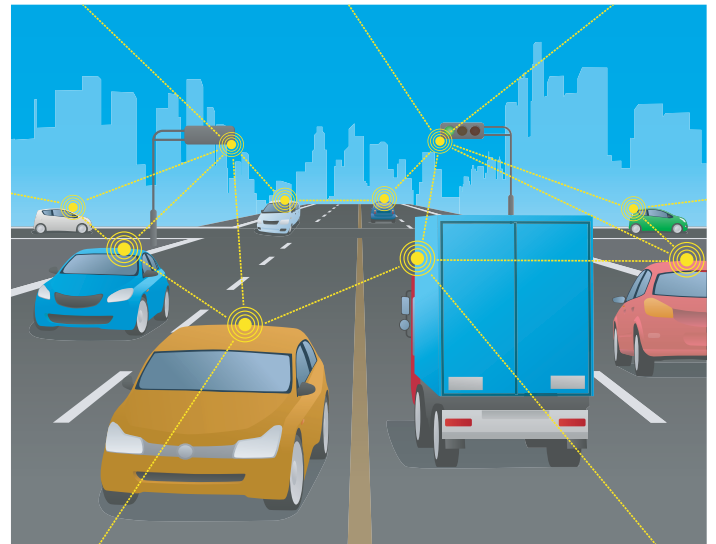
**SEA 9719 802.11p Communication Module for V2X
integrates NI cRIO into the V2X-world**



S·E·A Science & Engineering
Applications Datentechnik
GmbH



Module	SEA 9719
Order no.	60000090
Technical Data	
# RF Antennas	2
Standards	IEEE 802.11p – 2010 ETSI ES 202 663 IEEE 1609.4 – 2010
Frequency bands	5,850 – 5,925 GHz (channels 172, 174, 176, 180, 182, 184)
Channel bandwidth	10 Mhz, OFDM Modulation
Supported	3, 4.5, 6, 9, 12, 18, 24, 27 Mbps for 10MHz BW signal
Maximum output power	5,9 GHz: -10 to +23 ± 2dBm 5,9GHz: IEEE 1609 Class C
Minimum sensitivity	-97 dBm @ 3 Mbps
Operating temperature range	-25 to +50 [°C]
Size	90 x 23 x 70 [mm]
Weight	160 [g]
Software	
Supported LabVIEW versions	LabVIEW 2014 or higher



- Time synchronisation via PPS pulse via front connector and backplane
- Full LabVIEW API
- No cRIO FPGA resource usage
- Applicable for Linux and Windows

LabVIEW Support

The National Instruments CompactRIO™ platform for measurement and control applications bases on FPGA technology. It is a reliable, robust and compact system for reliable real time data acquisition and control solutions. Various digital and analog sensor signals and bus systems are supported.

Combined with the new SEA module this offers an attractive solution for in-field recording, replay, HIL-prototyping and functional test applications for V2X based on the cRIO-platform applications.

Service

S.E.A. Datentechnik GmbH develops soft- and hardware for the CompactRIO platform and supplies customized control and measurement systems. We also offer OEM solutions and integration support with CompactRIO products and all other National Instruments especially products.

Test systems and customized test solutions for V2X applications are also part of our portfolio.

Preliminary data. This is subject to change.

SEA 9719 802.11p Communication Module

V2X and Connected Car applications rely on communication between the traffic participants and infrastructure. This is known as Vehicle-to-X (V2X). For the wireless transmission for V2X communication the 802.11p protocol is defined as a standard.

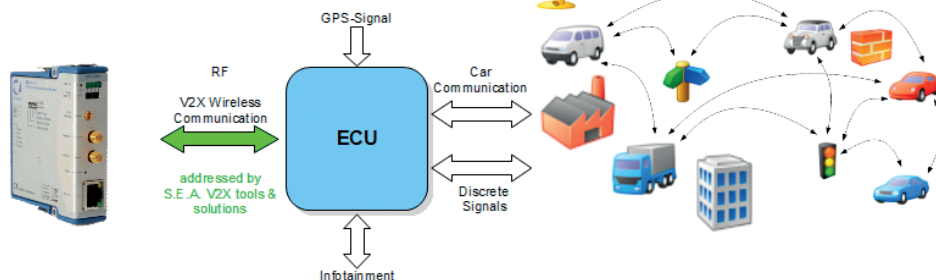
The SEA 9719 module provides a 802.11p interface to the modular National Instruments Compact RIO platform. With this module standard 802.11p messages can be transmitted and received from within LabVIEW applications. For easy integration a LabVIEW driver with a full set of API functions is available to the developer.

The module is connected to the cRIO controller by Ethernet. No LabVIEW FPGA programming is required.

The module offers:

- Compliance with WAVE and ETSI ITS G5 for US and Europe operations
- Use with Linux-based CompactRIO systems with ARM Cortex™-A9 processor!

For further information about solutions, accessories, and prices please contact us or visit our homepage:



THE ITS/V2X WORLD

www.sea-gmbh.com/v2x



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