Siemens Roadside Equipment provides 5.9 GHz of short range wireless communications between infrastructure and vehicles. Compliant with the U.S. Department of Transportation Connected Vehicle wireless standards, this equipment increases intersection safety for motorists.

**Applications**

- Standard transponder to vehicles
- Intersection safety
- In-vehicle traffic signal
- Lane placement location
- Vehicle lane departure warning
- Red light violation warning
- Wireless intersection in FLASH warning

**Features**

- Outdoor access point for up to 3 radio modules
- Dedicated radio module for control channel, service channels and optional dedicated radio module for WiFi
- Single CAT 5 power over Ethernet cable
- Society of Automotive (SAE) J2735 message set for commercial vehicles:
  - Signal Status Message (SSM)
  - Signal Phase and Timing (SPAT)
  - Lane Geometry (MAP)
Advantages

- Single standard transponder per intersection, including vehicle detection, emergency & transit
- Implements standard wireless messages from roadside to vehicles
- USA 50-state compatibility
- Compatible with automotive manufacturer standards
- Broadcast of Signal Status Message (SSM) for:
  - Driver alert of signals FLASH or DARK
  - Wireless maintenance check to service vehicles
- Broadcast of Signal Phase and Timing (SPAT) message for:
  - In-vehicle traffic signal display during fog or snow-over of signal
  - Advanced driver alert of red-light violations
  - Automatic braking, collision avoidance
  - EcoDriving, alter cruise control for arrival at GREEN
- Broadcast of MAP message for:
  - Lane geometry for driver lane departure warning and vehicle collision avoidance
  - Maps signal phase to lane for vehicle detection

Future intersection applications can be uploaded via Ethernet, for example:

- Wireless vehicle detection replaces inductive loops, video and radar detection
- Signal always GREEN at arrival during low traffic congestion
- Bicycle detection and safety
- Standard transit signal priority wireless messages
- Standard emergency vehicle messages for multiple jurisdictions
- Driver warning of emergency vehicle approach and direction

Specifications

- Weatherproof NEMA 4X enclosure
- Extended temperature range, -40° to 70°C
- Rugged cast aluminum & polycarbonate
- UV sunlight and salt spray resistance
- Outdoor mounting, no electrical enclosure

Siemens is your partner to develop an intelligent and economical transportation solution that will increase the quality of life in your city by improving safety, energy efficiency and traffic-flow, while generating capital that can be invested in additional infrastructure upgrades. With the most comprehensive portfolio of integrated transportation products, services and solutions, Siemens keeps America moving.

Siemens reserves the right to alter any of the Company’s products or published technical data relating thereto at any time without notices.