

The research to be conducted with the experimental license is part of the national Vehicle Infrastructure Integration (VII) initiative. It involves working with the automobile industry, which is involved in government research for VII.

The sites involved in the testing require licenses to operate. All testing will be done on private property, in parking lots of automakers and their suppliers. No alternative communications facilities will be required.

The 2-year expected term of the research coincides with the implementation of the VII.

Information about the transmitting equipment to be used in these tests is found below:

### **Multiband Configurable Networking Unit (MCNU)**

#### **Smarter Vehicles, Safer Roads**

The Multiband Configurable Networking Unit (MCNU) is a lightweight, weatherproof device that is used to build standards-compliant, broadband communication networks. The MCNU is designed to support transportation management, safety and security including support for Department of Transportation (DOT)/Federal Highway Administration (FHWA) Vehicle Infrastructure Integration (VII).



The MCNU can be installed in a car (mobile or portable) or can be attached to infrastructure - light poles, power poles, intersection light standards, highway signs, etc. With TechnoCom's MCNU platform customers can rapidly deploy VII safety, traffic and e-commerce applications.

#### **Safety related**

- Traffic signal violation warnings
- In-vehicle signage (road hazard warnings)
- Amber Alert notifications.

#### **e-commerce**

- Parking
- Toll collection
- Entertainment.

#### **Traffic mobility**

- Real time traffic monitoring (data collection)
- Signal timing adjustment
- Traffic signal priority for transit vehicles

As part of the VII initiative, TechnoCom is showcasing its MCNU platform in the AASHTO road show and Innovative Mobility Showcase to celebrate the 50th Anniversary of the first opening of the Interstate Highway. MCNU demonstrations include: Traffic signal violation warning, public safety vehicle priority signal activation and in-vehicle signing.