

# Mobility Solutions

## Increasing Roadway Safety



Each year, more than 40,000 people lose their lives on our nation's roadways. As the need for transportation overwhelms our highways and roadways, there is a greater demand to improve safety, reduce traffic congestion, lessen fuel consumption and provide drivers with real-time life-saving traffic and road condition information.

TechnoCom is a proud contributor to the Vehicle Infrastructure Integration (VII) program. VII is committed to technology-transforming transportation, and it joins vehicle manufacturers, systems integrators, the U.S. Department of Transportation (DOT) and state DOTs within the field of intelligent transportation systems. The VII mission is to deploy a national communications infrastructure between vehicles and between vehicles and roadside units to increase roadway safety.

TechnoCom Corporation is a privately held company, founded in 1995. TechnoCom was named by Deloitte & Touche as one of the "Technology Fast 50" in the Los Angeles area for the past four years giving recognition to the fact that we are an able competitor in the high technology sector. TechnoCom counts among its customers a host of world-class systems integrators and providers of location systems and technologies, as well as some of the largest wireless carriers in North America.

## Mobility Solutions Business Unit

*"Providing the leadership necessary to bring consensus in a standards forum is not an easy task. TechnoCom has done an outstanding job helping us keep our eye on the end goal."*

*– Frank Provenzano, Econolite*

TechnoCom's Mobility Solutions business unit is dedicated to providing intelligent software solutions and professional services for the transportation and automotive industries, systems integrators and federal, state and local government agencies. These solutions enable vehicle safety applications and make it possible to anonymously transmit traffic and road condition information from every major road within the transportation network.

Mobility Solutions' products and professional services are designed for the Mobile Communications, Telematics, Vehicle Infrastructure Integration, Dedicated Short Range Communication (DSRC), Infotainment and Public Safety markets.

For the last seven years, and under the sponsorship of the automotive industry and U.S. DOT, TechnoCom has been a pioneer in the standardization of 5.9 GHz DSRC, which uses modified WiFi technology, and offers communication data rates from 3 to 54 Mbps. TechnoCom is a leader in the development of DSRCs networking and management protocols through the Institute of Electrical and Electronics Engineers (IEEE) and supports standardization of secure, anonymous communications for the DSRC user.

TechnoCom solutions are specifically designed to meet the needs of our customers. We provide in-depth technical investigations and analyses, detailed designs, engineering plans/recommendations and full-up prototype demonstrations.



# Mobility Solutions



## Multiband Configurable Networking Unit (MCNU™)

The MCNU is a lightweight, weatherproof device that is used to build standards-compliant broadband communication networks. Its flexible DSRC-based wireless communication integrates a high performance GPS, and can be installed in a car (mobile) as an on-board unit (OBU) or it may be attached to such infrastructure as light poles, power poles, intersection light standards, highway signs, the side of a building, etc. — as a roadside unit (RSU).

The MCNU mobile unit serves as an anonymous data collector that provides information to roadside units. The MCNU RSU sends information to an on-board navigation system transmitting location, type and context of the roadside warning sign data, as well as the geofence and direction of travel information that define an area of validity.

The MCNU platform, combined with our leading edge professional services, provides VII, DSRC integration and Wireless Access in a Vehicular Environment (WAVE). The VII infrastructure makes it possible to save lives using intelligent warning systems, improve mobility and congestion, enhance driver experience with new features and services and support roadway maintenance and future development.

Emerging applications include: traffic signal violation warning, stop sign violation warning, in-vehicle signage (road advisory and local notification), roadway conditions (weather and potholes), traffic management and control, alternate route guidance, traffic information and electronic payments (tolls, gasoline and parking). The MCNU's flexibility also enables a variety of software applications.

## Services



TechnoCom is a leading technology development company that can provide engineering services to emphasize next generation mobile communication systems.

Our systems engineering is specifically designed to support customers who purchase products from the MCNU platform. Our capabilities include communication system design and evaluation, software development and engineering and system deployment and consulting.

We also develop customized solutions to support different segments of the industry to enhance system design and application, system architecture and quick and easy deployment.

In 2006 TechnoCom showcased its MCNU as part of the AASHTO Innovative Mobility Showcase celebrating the 50th anniversary of the U.S. interstate highway system. Demonstrations highlighted Signal Violation Warning, In-Vehicle Signing and Signal Pre-Emption. The MCNU continues its product showcase during worldwide mobility conferences throughout 2007 and 2008.

To find out more about Mobility Solutions, contact:

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