

# MobileMark

antenna solutions



Antennas for Intelligent Transportation Systems . . .  
Connections for seamless communication

The lynchpin of successful ITS systems will be dependable, consistent wireless coverage. User expectations are high, and network infrastructures will be pushed to the limit. The antenna solution is an important piece of the puzzle, and it is a piece that Mobile Mark understands.

Wireless coverage must reach seamlessly into hard-to-cover corners of city intersections and along vast expanses of interstate highways. Each setting is different, but what they all share in common is the need for dependable connections.

DSRC & C-V2X system designers need a complete palate of options to construct a network that offers continuous and balanced coverage. Mobile Mark's wide range of antennas can help make that possible.

## *Highway traffic management (V2V)*

ITS trials are being held around the world to see if we can provide safer and more efficient driving conditions. These Smart Highway projects range from Advance Warning of Traffic Tie-ups to Collision Avoidance to Tolling. Multiple wireless technologies are being used including Cellular, WiFi and DSRC or C-V2X at 5.9 GHz. Vehicle-to-Vehicle (V2V) communication is key to developing an effective wireless web.



## *Intersection traffic management (V2X)*

Traffic management at busy intersections is offered as one of the key benefits of future ITS networks. In addition to providing a warning of oncoming dangerous drivers, the ITS networks will allow traffic management to accommodate more efficient traffic flow for emergency vehicles. Our new bi-directional and quad-directional rod antennas offer radiation patterns that are well suited for certain intersection configurations.



## *Specialized DSRC applications: tolling, parking*

DSRC applications are moving beyond ITS networks at intersections and along highways to include the 5.9 GHz frequency for highway tolling, trucking oversight, and parking lot controls. Antenna styles will range from small Directional antennas for more narrowly configured coverage to Omni-directional antennas for settings where the path to the antenna is not pre-determined.

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## *Highway wayside communications (V2I)*

The Vehicle-to-Infrastructure (V2I) portion of the ITS trial poses a number of difficult challenges for antenna selection such as finding products that will withstand harsh conditions or optimizing coverage based on trade-offs between gain and pattern shape. A mixture of omni directional, directional and bi-directional antennas will be needed, including our new bi-directional blade antenna for wayside communications.



## *Specialized vehicles: motorcycles, buses*

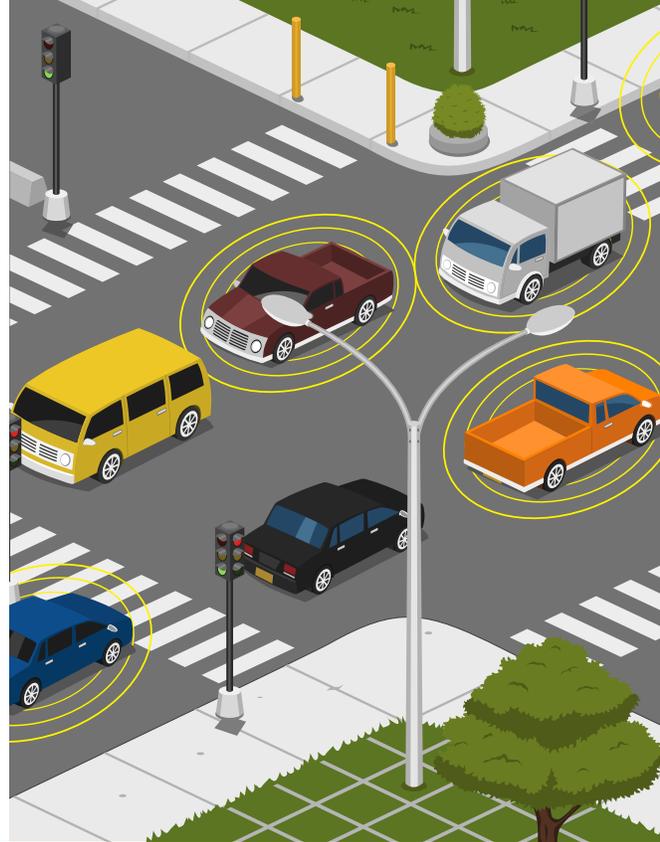
In order to be truly effective, ITS networks need to accommodate vehicles of various sizes, from motorcycles to buses. We offer antennas that meet different size and use requirements from our small MRM antennas for motorcycles to our multi-band SMW & LTM antennas for buses and our ECOS Series spring-mounted omni-directional antennas equipped with a mirror mount for long haul trucks.



Mobile Mark antennas cover commercially available wireless networks as well as specialized networks. We can help you tie together the right mix of wireless systems for both vehicles and infrastructure. And, installers love the fact our antennas are easy to install and service free.

If you need something special, Mobile Mark has the facilities and the experience to take a project from initial conception through to final production. Our team of design engineers brings years of experience and a proven track record for developing innovative, high quality antennas.

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VEHICLE - TO - VEHICLE	VEHICLE - TO - INFRASTRUCTURE	INTERSECTION TRAFFIC MANAGEMENT	SPECIALIZED APPLICATIONS: TOLLING, MINING, PARKING	SPECIALIZED VEHICLES: MOTORCYCLES, BUSES
<p>IW-5900 Glass-mount, DSRC or C-V2X 5.9 GHz</p>  <p>V2X Mobile Antenna 2x DSRC, 1x GNSS 5.9 GHz &amp; 1575/1612 MHz</p>  <p>MAG-5900/1575 Omni-Directional Magnet Mount 6 dBi, 5.9 GHz, and GPS</p> 	<p>BD-5900 Bi-Directional DSRC/C-V2X Blade Antenna 13 dBi, 5.9 GHz</p>  <p>ECO-5900 Series Omni-directional Pole mount 6, 9 or 12 dBi gain</p>  <p>PS-5900 Series 10-14 dBi gain Sector sizes from 45°-120°</p> 	<p>ECO-5900DN Series Omni with direct N connector 6, 9 or 12 dBi gain Mounts to Roadside Unit</p>  <p>RM-WHF with bracket Pole-mount or wall-mount 5 dBi, 1.7-6.0 GHz</p>  <p>Bi-Directional, DSRC Rod Antenna 14 dBi, 5.9 GHz</p> 	<p>OD5-5900MOD2 Omni- Directional, Vibration Resistant 5 dBi, 5.9 GHz</p>  <p>PN18-5900 Panel mount, DSRC or C-V2X 18 dBi, 5.9 GHz</p>  <p>YAG12-5900 Yagi, Directional 12 dBi, 5.9 GHz</p> 	<p>ECOS9-5900 Mirror Mount for Trucks Heavy duty coil springs 9 dBi, 5.9 GHz</p>  <p>SMW-314 GNSS, C-V2X, Global LTE</p>  <p>MRM Series Single element, 5.9 GHz</p> 