Post Oak Traffic Systems
Incorporated

RELIABLE SOLUTIONS

Post Oak Traffic Systems provides innovative, cost effective solutions for collecting and processing traffic data using anonymous wireless network addresses as probes. Our systems currently use anonymous addresses from *Bluetooth™* network devices to identify probes and calculate travel times and speeds on instrumented roadway segments.

Technology

Anonymous Wireless Address Matching (AWAM) detects vehicles equipped with enabled *Bluetooth* networking devices such as cellular phones, mobile GPS systems, telephone headsets, and in-vehicle navigation systems. Each AWAM reader senses probe devices as they pass a reader station and transmits the time and location of the device to a central host system. As probes are detected at successive AWAM readers, the host system calculates average travel times and speeds for a roadway segment.

Product Benefits

- Low cost, standards-based, non-proprietary equipment and protocols.
- Easy, non-intrusive field installation and maintenance.
- Large penetration of probe devices and data samples.
- Real-time summary calculations.
- Complete ownership of data by customer.

The Post Oak Traffic Systems Advantage

Our patent-pending method for detecting Bluetooth devices results in more accurate travel time calculations and up to 50% more data samples collected compared to systems using the default method of detecting Bluetooth devices.

Post Oak Traffic Systems products have logged thousands of hours of use in harsh roadside environments and in a variety of scenarios and configurations. The device readers and software are installed on hundreds of miles of roadways providing traffic data to a number of sources that depend on the information for traffic management, traveler information, and evacuation routing decisions.

Contact Post Oak Traffic Systems

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Anonymous Wireless Address Matching Process Controller

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PROCESS CONTROLLER TECHNICAL SPECIFICATIONS

Power
8-30 Volts, 3.4 watts

Environmental
-4° F to 158° F (-20° C to + 70° C)

Processor
- ARM9 CPU
- DDR-RAM
- NAND Flash, high-speed (17MB/s)
- 2 SD sockets (1 micro-SD, 1 full-size SD)
- 2 SATA ports
- 2 USB 2.0 480Mbps host/slave ports
- Gigabit Ethernet, 10/100/1000 speeds
- 3 external serial ports

Dimensions
5.25" x 4.5" x 2.5" (h*w*d)

Bluetooth
Bluetooth 2.0+EDR Class 1

Communications
Fits into any communications infrastructure

Post Oak Traffic Systems revolutionary traffic detection device reads MAC addresses from enabled Bluetooth devices and forwards them to software capable of estimating travel times and speeds.

SOLUTIONS

POST OAK TRAFFIC SYSTEMS PROVIDES A FULL, END-TO-END SOLUTION FOR WIRELESS ADDRESS MATCHING FOR TRAFFIC INFORMATION. EACH PRODUCT HAS A MODULAR DESIGN AND RICH INTERFACES THAT CAN EASILY BE INTEGRATED INTO OTHER SYSTEMS SUCH AS EXISTING TRAFFIC MANAGEMENT CENTER SOFTWARE.

OUR SOFTWARE MODULES CAN ALSO BE INTEGRATED INTO YOUR OEM SOLUTION.
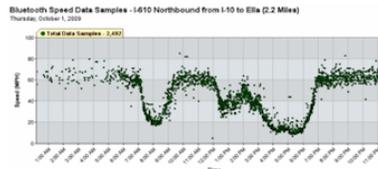
flexible solutions for your traffic monitoring needs

TRAFFIC DATA CALCULATION

The Traffic Data Calculation Software gives customers the ultimate flexibility for data access by providing a real-time interface for the following elements.

- Individual *Bluetooth* address records
- Individual travel time and speed samples.
- Travel time and speed averages.
- XML-based integration into your existing infrastructure.

TRAFFIC DATA ANALYTICS

Post Oak Traffic Systems provides a web-based analytics tool to allow users to visualize real-time and historical data from each roadway segment monitored by the system.

Bluetooth Speed Data Samples - I-610 Northbound from I-10 to Ella (2.2 Miles)
Thursday, October 1, 2009