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Methods to improve
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Machine-to-machine
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INFRASTRUCTURE • APPLICATIONS • SECURITY • SAFETY • INTELLIGENCE

MRTM

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MOBILE RADIO TECHNOLOGY
The Official Magazine of IWCE

4.9 GHz LIFTS OFF

>> A tactical exercise underscores both the potential and the limitations of the band established by the FCC for public-safety wireless broadband communications.



A PRIMEDIA Publication

RFID gets a boost from Microsoft

Radio frequency identification solutions developer Symbol Technologies lands a deal with the software giant that could push RFID further into the mainstream. **Page 55**

WWW.MRTMAG.COM

riders with instantaneous updates on the cycle's speed, RPM and gearing. The data is displayed in "Top Gun"-like fashion on the inside of the helmet's visor. Cypress's WirelessUSB solution lets the MC1 transmit data from the cycle to the helmet without encountering interference from the simultaneous use of mobile phones or two-way radios.

www.sportsvue.net
www.cypress.com

ZigBee system-on-a-chip

Ember Corp.'s EM250, which the company is billing as the world's first ZigBee system-on-a-chip, is an 802.15.4-based semiconductor system that integrates a programmable microprocessor, RF radio, network protocol stack and memory into a single-chip solution. The 2.4 GHz EM250 is "smaller than a shirt button," which leads to reduced component size, cost and power con-

sumption for OEMs and system integrators, the company said.

www.ember.com

Wireless VoIP mobile mesh devices

Sensoria has collaborated with TeleSym to develop a voice-over-Wi-Fi solution for peer-to-peer wireless communications on all future Sensoria mesh-enabled devices. Originally targeted at the military sector, the technology will be used to enable public-safety voice, data and video applications, the company said. Sensoria has licensed the source code to all of TeleSym's SymPhone product family.

www.sensoria.com
www.telesym.com

Three-flavored Wi-Fi chip

Intel said it has unlocked a way to support three 802.11 wireless

broadband standards on a single chip, according to multiple media reports. Being able to process the Wi-Fi standards—802.11a/b/g—on a single chip is expected to reduce costs and extend battery life for mobile devices. The solution also is expected to support data rates exceeding 100 Mb/s, the company said.

www.intel.com

Laptop-based Wi-Fi spectrum analyzer

Cognio's Intelligent Spectrum Management System (ISMS) Mobile solution is first-of-its-kind, laptop-based, radio frequency spectrum

*spotlight: in vehicle systems and mounts

Ram Mounts

A fully adjustable, in-vehicle laptop mounting system offers vertical fine-tuning via the company's patent-pending Tele-Pole, which lets users adjust either the swing arms or telescoping pedestal via a single knob. In addition, a patented no-slip rubber ball and socket isolates shock and vibration to extend laptop life. It also enables the user to find the perfect screen-viewing angle, regardless whether the laptop is used from the passenger or driver side, the company said. Solutions are available for Chevrolet, Chrysler, Dodge, GMC, Ford and Jeep vehicles. The no-drill bases use existing hardware, and the tray is spring loaded.

www.ram-mounts.com

First mobile Technologies



First Mobile Technologies

The Dell D610 Cradle is just 7/8-inch wider and 5/8-inch deeper than the laptop to deliver a minimum in-vehicle footprint. Other features include a secure key-locking mechanism to keep the laptop in place; full access to all laptop ports, card slots and drive bays; a non-glare surface finish; scratch-resistant clamps at all touch points; 360° swivel capability;

and an optional arm that holds the screen in an upright position. The cradle is constructed from 16-gauge steel to reduce vibration and can be height-adjusted. In addition, users can completely close the laptop while it is locked in the cradle, and a patented "voltage armor" feature guards against power interruptions.

www.firstmobiletechnologies.com