

## Infrastructure

Mission Critical Data Applications



### A Proven Solution

#### Wireless Leader

Since 1993, Sierra Wireless has been a pioneer in the cellular data space, enabling pervasive two-way communication to remote commercial assets. The AirLink™ Mobile and M2M product line has provided customers with significant ROI by leveraging the public wireless networks, integrating real-time data into the enterprise for accurate monitoring, control, reporting and compliance.

Sierra Wireless' line of AirLink fixed and mobile connectivity solutions has continuously evolved in parallel with the wireless technologies and broad applications served. Our reliable embedded ALEOSTM technology, coupled with AceWare™ remote management tools and utilities and unmatched technical expertise, have earned the company an exceptional reputation in the industry.

### Reliable Devices for Secure and Persistent Monitoring and Control

#### Homeland Security, Disaster Recovery, Intelligent Transportation, Remote Monitoring Safety

Security and reliability are important factors for all networked infrastructure systems. Sierra Wireless' AirLink rugged, intelligent wireless gateways enable secure, cost-effective, continual data exchange between control centers and their remote devices.

#### Robust Intelligence

Powered by ALEOS, the long standing industry benchmark for embedded intelligence, the AirLink mobile data platforms enable the persistent network connection that is so critical in fixed infrastructure and mobile applications. Furthermore, ALEOS - in conjunction with the AceWare suite of software tools and utilities - allows remote diagnostics and modem configuration.

#### High-Speed Data

The Sierra Wireless AirLink communications platforms are designed to maximize the potential of today's high-speed 3G wireless networks. Broadband capabilities enable infrastructure customers to create a secure, reliable environment for data exchange, providing consistent access to vital monitoring applications and back-end databases.

#### Precision GPS Tracking

Equipped with high sensitivity GPS chips, the AirLink mobile data modems ensure real-time, precise location data for an entire fleet. Partnerships with best-in-class GPS location application providers enable delivery of complete asset tracking and location solutions to Sierra Wireless customers.

#### Rugged Reliability

Built to meet the military standards, the PinPoint X and MP Series modems are able to withstand the intense heat and vibration of a mobile implementation. Sierra Wireless mobile communications devices have been deployed in countless in-vehicle solutions for over a decade and have withstood the test of time.



## Pervasive Connectivity to Mission Critical Assets



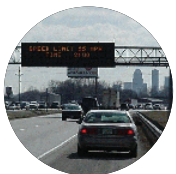
### HOMELAND SECURITY

- Bridge and Tunnel Monitoring
- Alarm Triggered Video Surveillance
- Contaminant Screening



### DISASTER RECOVERY

- Weather and Seismic Monitoring
- Rugged, Military-Standard Form Factor
- Secure, Reliable Connectivity



### INTELLIGENT TRANSPORTATION

- Automated Vehicle Location (AVL)
- Fleet Management
- Real-Time Traffic Measurement & Control



### AIRLINK RAVEN XT

- Small Form Factor
- Machine Protocols
- Serial and USB Interfaces



### AIRLINK RAVEN X

- 3G Connectivity
- High-Speed Ethernet Port
- Rugged Design



### MP SERIES RUGGED MODEMS

- Ultra-Rugged Design
- MIL Spec 810-F, SEA J1455
- High-Speed Processor
- Multiple Interfaces

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## Real World Success

**Laser Craft:** Designer and provider of laser-based detection, measurement and law-enforcement systems.

### Benefits:

- Quicker and less expensive deployments – Shortened process by 3 – 5 months and reduced cost by \$10,000 - \$25,000
- Remote device management – Over-the-air debugging and configuration reduce cost of maintenance
- Streamlined operations – Negated the need for manual image downloads on site



**California Dept. of Transportations (Caltrans):** \$20-million dollar security initiative featuring a state-of-the-art, wireless, electronic surveillance system to protect the Bay Area's transportation infrastructure, including area bridges and tunnels.

### Benefits:

- Minimized deployment costs and security risks – Elimination of wires produces significant cost savings and allows Caltrans to deploy solution without physical adjustments to infrastructure
- Optimized proactive security services – New system enables Caltrans to detect breaches, receive alerts and control or direct system cameras from a central location, as well as share information with local law enforcement agencies

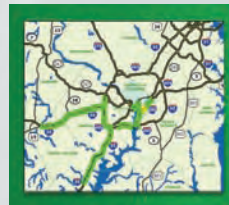


"Caltrans made an innovative and wise choice to take advantage of the power, dependability and flexibility of wireless technology for the BASE (Bay Area Security Enhancement) project," said David Brown, the division manager who ran the project for Royal Electric. "Not only would fiber have required much more time to lay, but it would have cost three to five times more than the wireless system."

**Traffic.com:** Wireless data collection and distribution for in-depth traffic information feeding media outlets, consumer in-vehicle navigation applications and government agencies.

### Benefits:

- Enhanced reliability and functionality – Embedded intelligence and remote management and control applications facilitate real-time monitoring and data collection
- Improved information accuracy - 24/7, always-on, always-aware connectivity enables persistent reporting on current traffic events, construction and incident data



## ALEOS™ Technology

At the heart of the Sierra Wireless AirLink products is ALEOS, the embedded core technology that simplifies installation, operation and maintenance of any wireless solution.



- Persistent Network Connectivity
- Over-The-Air (OTA) Upgrades
- Extensive Machine Protocols
- Device Management & Control
- Real-Time Notification
- Wireless Optimized TCP/IP
- Packet Level Diagnostics
- Protocol Spoofing

## AceWare™

Sierra Wireless' best-in-class tools and utilities, leveraging the intelligence of ALEOS, simplify deployment, as well as remote monitoring, control and management of the entire solution.



**AceManager** - Extensive remote management application

- Real-Time, Remote Device Status and Health
- Comprehensive OTA Device Configuration and Firmware Updates

**AceView** - Efficient status and connection monitoring application

- Modem Status, Connectivity, Signal Strength, GPS Signal and Mapping

**AceNet** - Enterprise-level application to simultaneously monitor, control and manage a complete deployment of AirLink devices

- One-To-Many Device Configuration and Management
- Charts Modem Statistics for Performance Analysis

**MP Modem Manager** - Enterprise-level remote configuration tool for MP Series Modems

- One-To-Many Device Configuration and Management
- OTA Module Firmware Updates



### For more information

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**SIERRA WIRELESS**  
HEART OF THE WIRELESS MACHINE®

## SIERRA WIRELESS

Connecting People and Systems to Mobile Broadband Networks Around the World

Sierra Wireless modems and software connect people all over the world with mobile broadband networks that keep them in touch, informed and productive from wherever they need to be. The company offers a diverse product portfolio addressing enterprise, consumer, original equipment manufacturer, machine-to-machine and specialized vertical industry markets. Sierra Wireless also provides professional services to customers requiring expertise in wireless design, integration and carrier certification. For more information, please visit our website, [www.sierrawireless.com](http://www.sierrawireless.com).