# Sierra Wireless AirLink ES450
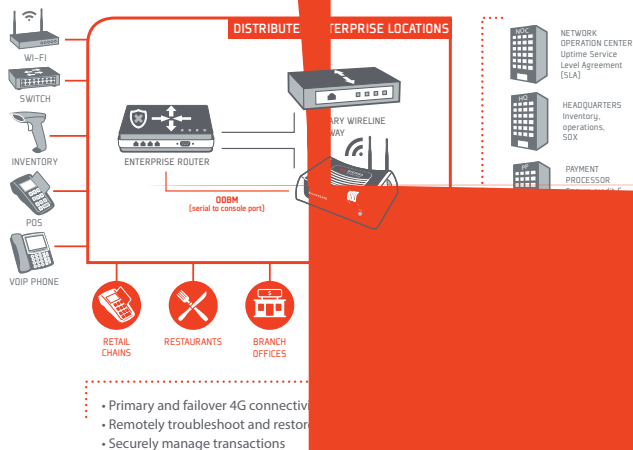
## Reliable enterprise connecti

The AirLink® ES450 is secure LTE gateway designed to connect the distributed enterpr th state-of-the-art global LTE coverage from the proven leader in LTE te gy, the ES450 provides broadband connectivity for POS devices and oth siness critical equipment to ensure you can continue to serve custor quests. Together with AirLink Management Service, you have a one- solution to provision devices, monitor cellular data usage, and remotely ntain software versions and configurations.

**SIERRA WIRELESS®**

## e ES450 Solution

**B -in-Class** Business Continuity Strategy

DISTRIBUTE TERPRISE LOCATIONS

WI-FI

SWITCH

INVENTORY

POS

VOIP PHONE

ENTERPRISE ROUTER

OOBM
(serial to console port)

ARY WIRELINE
WAY

RETAIL CHAINS   RESTAURANTS   BRANCH OFFICES

NOC
NETWORK OPERATION CENTER
Uptime Service Level Agreement (SLA)

HEADQUARTERS
Inventory, operations, SOX

PAYMENT PROCESSOR

• Primary and failover 4G connectiv
• Remotely troubleshoot and restore
• Securely manage transactions

### AIRLINK ES450 FEATURES

- Full featured LTE gatewa connectivity
- State of the art LTE cove
- Proven and documented
- Cellular out of band ma enterprise IT equipment
- Reliable Static Route eli
- Advanced routing such
- Up to 5 VPN tunnels to s
- Secure configuration for
- Remote configuration, s Management Service
- Integrated by industry le
- Industry leading warrant hardware replacement

### AIRLINK ES450 BENEFITS

- Supports present and future high speed LTE networks
- Proven reliability, with over 1 million AirLink devices deployed
- Enterprise–grade security
- Remotely monitor and manage device connectivity
- Premium enterprise features, software updates, and hardware replacement included

# Sierra Wireless
# AirLink® ES450

## ENTERPRISE GATEWAY AND TERMINAL SERVER

The AirLink ES450 enterprise gateway delivers mission-critical LTE connectivity either as a primary connection or as a failover solution to protect against landline failure. With documented interoperability guides for the industry's leading enterprise routers, the ES450 allows you to deploy your enterprise LTE connectivity solution quickly and seamlessly.

In addition to providing broadband connectivity, the ES450 also provides a terminal server for remote out-of-band management of network equipment. Using the AirLink ES450 to connect to the router console interface, IT administrators can remotely troubleshoot and repair network equipment. Personnel no longer need to be deployed to manually reset networking equipment, dramatically reducing the number of field visits.

## SECURE WIRELESS BROADBAND COMMUNICATIONS

The ES450 is loaded with features to secure your critical enterprise data. With up to 5 concurrent VPN sessions, you can ensure secure communications to multiple back-end systems.  Remote authentication management allows you to use enterprise RADIUS or TACACS+ systems to manage access to devices.  Port filtering and trusted IP protect devices connected to your ES450 from unauthorized access. Finally, secure configuration options ensure compliance to PCI standards for payment systems.

## FUTURE PROOF YOUR DEPLOYMENT

To protect your investment in mobile broadband technology, you want software upgrades and security enhancements to be readily and freely available and easy to deploy. You want the assurance that any issues will be quickly and thoroughly corrected. For this reason, AirLink offers unlimited access to software updates and enhancements free of charge. We also offer a standard 3 year manufacturer's warranty, and 24 hour turnaround on hardware replacements.

## MANAGE, MONITOR AND MAINTAIN YOUR DEPLOYMENT

With a deployment of LTE enterprise gateways, you need to stay informed of important information like mobile data usage and failover status. In addition, you need to maintain device configurations, update device software, and remotely diagnose reported issues. AirLink Management Service (ALMS) is the industry's leading* device management solution. This highly advanced application supports over-the-air device registration, configuration and software updates. Dashboards display up-to-date views of the entire deployment, and custom reports can be set-up to monitor critical events and prevent downtime.

ABI Research has ranked ALMS as "Best in Class" among competing device management services.
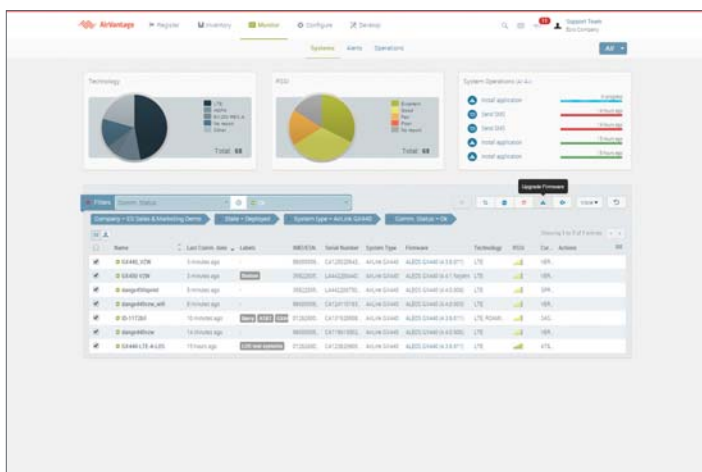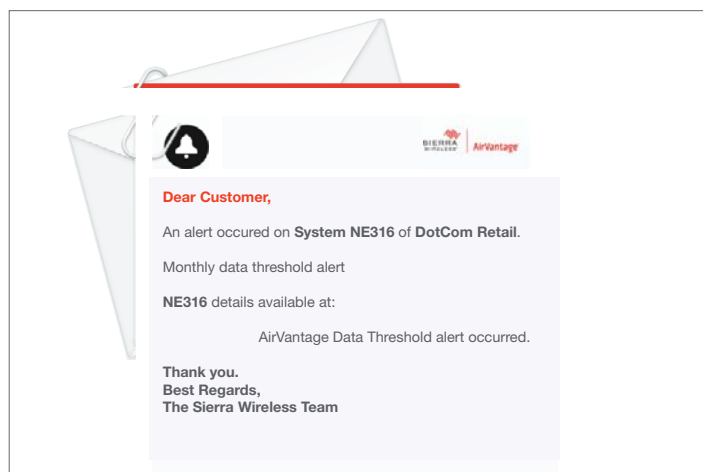
### DASHBOARD
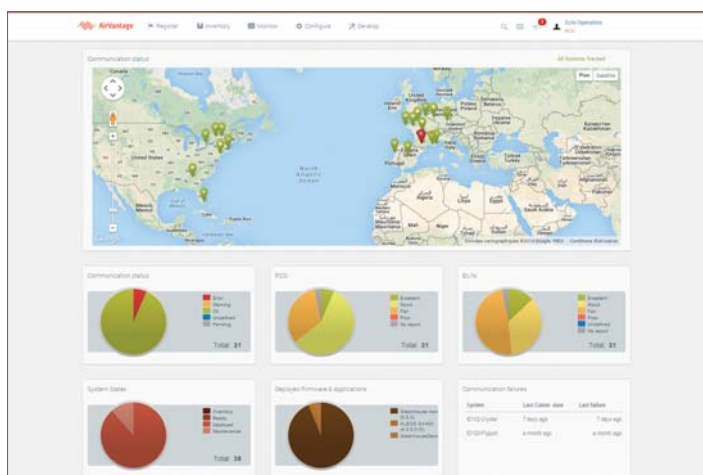


### FAILOVER MONITOR
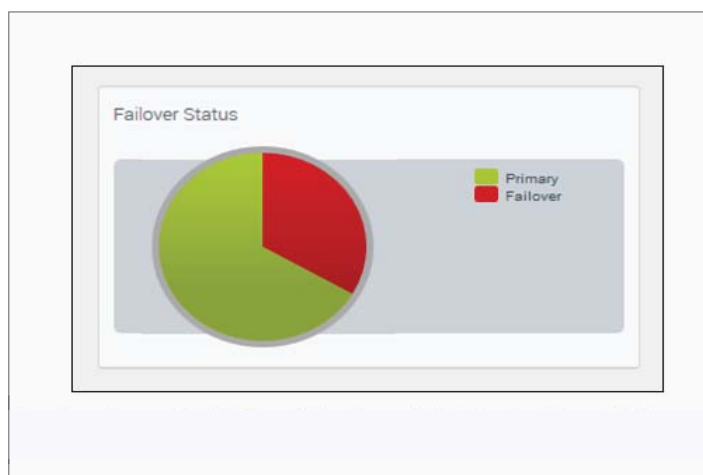


### SOFTWARE UPGRADES/UPDATES



### DATA USAGE ALERT

# AirLink® ES450
# Technical Specifications

| FEATURE | SPECIFICATION |
|---|---|
| Cellular WAN | **North American Model (Sierra Wireless MC7354)** |
| | - Carrier Approvals: Verizon, AT&T, T-Mobile USA, |
| | - Supported Frequency Bands |
| | • LTE: 1900(B2), AWS(B4), 850(B5), 700(B13), 700(B17), 1900(B25) |
| | • WCDMA: 2100(B1), 1900(B2), AWS(B4), 850(B5), 900(B8) |
| | • EV-DO/CDMA: 800(BC0), 1900(BC1), 1700(BC10) |
| | • GSM/GPRS/EDGE: Quad-band |
| | - Industry Approvals: FCC, IC, PTCRB |
| | **International Model (Sierra Wireless MC7304)** |
| | - Supported Frequency Bands |
| | • LTE: 2100(B1), 1800(B3), 2600(B7), 900(B8), 800(B20) |
| | • WCDMA: 2100(B1), 1900(B2), 850(B5), 900(B8) |
| | • GSM/GPRS/EDGE: Quad-band |
| | - Industry Approvals: CE, RCM, GCF, R&TTE |
| Host Interfaces | - 10/100 Base-T RJ45 Ethernet port |
| | - RS-232  Serial Console Port on DB-9 Connector |
| | - USB 2.0 Micro-B Connector |
| | - 2 SMA antenna connectors (Primary, Secondary/Diversity) |
| Input/Output | Configurable I/O pin on power connector |
| | • Digital Input ON Voltage: 3.3 to 30 VDC |
| | • Digital Input OFF Voltage: 0 to 1.2 VDC |
| | • Digital Output > 200mA @ 30VDC |
| LAN (Ethernet/USB) | DNS, DNS Proxy |
| | DHCP Server |
| | IP Passthrough |
| | VLAN |
| | Host Interface Watchdog |
| | PPPoE |
| Serial | TCP/UDP PAD Mode |
| | Modbus (ASCII, RTU, Variable) |
| | PPP |
| | Reverse Telnet |
| | Garmin FMI |
| Network and Routing | Network Address Translation (NAT) |
| | Port Forwarding |
| | Host Port Routing |
| | NEMO/DMNR |
| | VRRP |
| | Reliable Static Route |
| | Dynamic DNS |

| FEATURE | SPECIFICATION |
|---|---|
| VPN | IPsec, GRE, and SSL VPN Client |
| | Up to 5 concurrent tunnels |
| | Split Tunnel |
| | Dead Peer Detection (DPD) |
| | Multiple Subnets |
| Security | Remote Authentication (LDAP, RADIUS and TACACS+) |
| | DMZ |
| | Inbound and Outbound Port filtering |
| | Inbound and Outbound Trusted IP |
| | MAC Address Filtering |
| | PCI DSS V3.0 compatible |
| Events Engine | Custom event triggers and reports |
| | Configurable interface, no programming |
| | Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature |
| | Report Types:  SNMP Trap |
| | Event Actions: Drive Relay Output |
| AirLink Management Service | Secure cloud-based device management application |
| | Remote provisioning and airtime activation |
| | Device configuration and template management |
| | Configurable monitoring and alerting |
| | Fleet wide firmware upgrade delivery |
| Management Interfaces | Web Based User Interface |
| | Device Configuration Templates |
| | Over-the-air software and radio module firmware updates |
| | AT Command Line Interface (Telnet/SSH/Serial) |
| | SMS Commands |
| | SNMP |
| Application Framework | ALEOS Application Framework (AAF) |
| | LUA Scripting Language |
| | Eclipse-based IDE |
| | Integrated with AirVantage |
| Power | Analog Ignition Sense and Power Management |
| | Input Voltage: 9 to 36 VDC |
| | Low Power mode triggerable upon low voltage, timer delay (ignition sense), periodic timer |
| Environmental | Operating Temperature: -20°C to +60°C / -4°F to +140°F |
| | Storage Temperature: -30°C to +70°C / -22°F to +158°F |
| Industry Certifications | Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950 |
| | Vehicle Usage: ISO7637-2 |
| | Environmental: RoHS, REACH, WEEE |
| Support and Warranty | 3 year standard warranty |
| | Optional additional 2 year warranty extension |
| | 1-day Accelerated Hardware Replacement available through participating resellers |
| | Unrestricted device software upgrades |