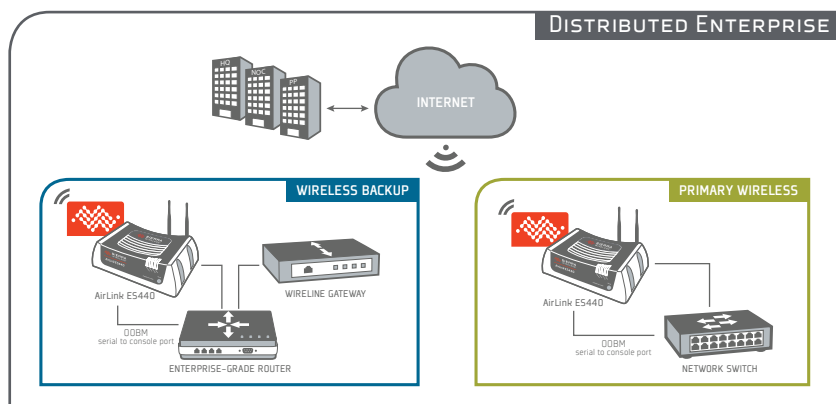# Sierra Wireless
AirLink® ES440

Enterprise 4G LTE gateway and terminal server

The AirLink® ES440 enterprise gateway delivers mission-critical 4G LTE connectivity when primary landline connections are unavailable. Deployed with an enterprise router, the ES440 supports a best-in-class business continuity strategy by enabling out-of-band management (OOBM) capability to network operations while leveraging the router's instant failover and firewall features.

In addition, the ES440 can be configured to send its management data via the DSL/cable gateway using reliable static route protocol to reduce wireless network costs. Benefits to this enterprise-class business continuity solution include:

- Improved Internet uptime to keep your branches, kiosks, and retail operations online
- Seamless failover for continuous uptime of mission critical applications
- Reduced field visits for network equipment resets and updates
- High speed LTE network, faster than DSL

Distributed Enterprise

INTERNET

WIRELESS BACKUP
AirLink ES440
OOBM serial to console port
WIRELINE GATEWAY
ENTERPRISE-GRADE ROUTER

PRIMARY WIRELESS
AirLink ES440
OOBM serial to console port
NETWORK SWITCH

OUT-OF-BAND MANAGEMENT (OOBM)

Using the AirLink ES440's serial port to connect to the console port of the router, IT administrators can troubleshoot and repair network equipment over wireless wide area networks (WWAN). This terminal server capability allows operation centers to remotely reboot, configure, and update a router via the ES440 using Reverse Telnet and SSH protocols. As a result, remote personnel no longer need to manually reset their networking equipment and IT administrators can dramatically reduce the number of field visits.

KEY FEATURES

- Reliable 4G LTE connectivity
- 3-year industry leading warranty
- Remote access to networking equipment
- Leverages your router's instant failover and firewall features
- AirVantage® Management Service for remotely configuring, deploying, and troubleshooting the ES440 that works in parallel with your network management systems

Benefits for Service Providers

- Offer better SLAs
- Differentiate your business continuity solution

SIERRA WIRELESS™ | AirLink®

AirLink® ES440
Technical Specifications

4G LTE

- Verizon 700MHz Band 13 LTE
  Sierra Wireless MC7750 Radio Module
  (fallback to 800/1900 MHz EV-DO)
- AT&T 700MHz Band 4 & 17 LTE
  Sierra Wireless MC7700 Radio Module
  (fallback to 850/1900/2100 MHz HSPA+)
- EU 800/900/1800/2100/2600 MHz LTE
  Sierra Wireless MC7710 Radio Module
  (fallback to 900/1800/1900MHz HSPA+)

Theoretical LTE data rates
- Download: 100Mbps
- Upload: 50Mbps

OPERATOR & REGULATORY APPROVALS

Approved for deployment on Verizon, AT&T, CE (Europe), PTCRB (North America),

HOST INTERFACES

- 10/100 Base-T RJ45 Ethernet
- RS-232 serial port (DCE, requires Null modem for console connection)
- USB V2.0 Micro-A receptacle
- 2 SMA antenna connectors (Primary, Secondary)

PROTOCOLS

- Network: TCP/IP, UDP/IP, DNS
- Routing: NAT, Host Port Routing, DHCP, PPPoE, VLAN, VRRP, Reliable Static Route
- Application: SMS, Telnet/SSH, Reverse Telnet, SMTP, SNMP, SNTP

VPN/SECURITY

- IPsec, SSL, and GRE VPN Client
- Up to 5 VPN Tunnels
- IKE Encryption
- Port Forwarding and DMZ
- Port Filtering
- Trusted IP
- MAC Address Filtering

DIMENSIONS

- 3.0 in x 3.5 in x 1.0 in
  (76 mm x 90 mm x 25 mm)
- 6.7 oz (190G)

POWER INPUT

- 100 - 240 VAC, 50/60Hz, 500mA
  Adapters for North America,
  Great Britain, and Europe.
- 9-36 VDC optional input

ENVIRONMENTAL

- Operating Temperature:
  -20°C to +60°C
- Storage Temperature:
  -30°C to +70°C

OTHER REGULATORY APPROVALS

FCC, Industry Canada, RoHS Compliant, CE (Europe), PTCRB (North America)

WARRANTY

- 3-year

DELIVERING BEST-IN-CLASS BUSINESS CONTINUITY

Why is the combination of enterprise-grade router with an ES440 better than a single-box wireless solution? The combination not only offers redundancy, but also provides:

- Instant failover and improved application uptime during failover (router)
- Reliable, mission-critical backup connectivity (ES440)
- Enterprise-grade firewall (router)
- Out-of-band management (ES440)
- Optional active standby router configuration (router)

SIERRA WIRELESS™ | AirLink®