

Raven X

Powerful, Feature-Rich Wireless Networking and Communications Platform

Raven X

Wireless Data Communications Platform

EV-DO Rev. A



A Proven Solution

Wireless Leader

Since 1993, AirLink has been a pioneer in the cellular data space enabling pervasive two way communications to remote commercial assets. AirLink customers yield significant ROI by leveraging the public wireless networks, integrating real-time data into the enterprise for accurate monitoring, control, reporting, and compliance.

AirLink's fixed and mobile connectivity solutions have continuously evolved in parallel with the wireless technologies and broad applications served. AirLink's reliable embedded ALEOSTM technology and unmatched technical expertise have earned the company an exceptional reputation in the industry - *We Make Wireless Data Work.*

Raven X EV-DO Rev. A

Powered by ALEOSTM technology, the longstanding industry benchmark for reliable and feature-rich embedded intelligence, the Raven X features advanced processing power and expanded memory within an enhanced scalable architecture optimized for high-speed cellular networks. It is compatible with numerous machine-to-machine communications protocols making it ideal for a long list of remote industrial solutions, while the high-speed interface makes it equally powerful for commercial wireless network connectivity applications.



The Raven X includes both serial and Ethernet interfaces to simplify deployments and ease technology migration. In a compact sleek form-factor with integrated mounting features and in a rugged aluminum case, the Raven X is Class I Division 2 certified ensuring intrinsic safety for operation in hazardous environments.

The Raven X is equipped with advanced CDMA 2000 EV-DO Revision A (EV-DO Rev. A) wireless technology. In addition, it is backwards compatible and automatically connects with existing and broadly deployed EV-DO Rev. 0 and CDMA 1x networks ensuring reliable and pervasive connectivity. ALEOSTM technology working in concert with AirLink's best-in-class tools and utilities allows for seamless integration with new or existing deployments making the Raven X ideally suited for a broad set of fixed, portable and mobile applications.

Pervasive Connectivity to Remote Assets



UTILITIES – REMOTE MONITORING AND CONTROL

- Electric Utilities
- Oil and Gas
- Water Monitoring & Wastewater Treatment
- Remote SCADA/Telemetry Applications



INFRASTRUCTURE MONITORING AND PROTECTION

- Homeland Security
- Intelligent Transportation Systems (ITS)
- On-Demand Video Surveillance
- Remote Monitoring & Surveillance



FINANCIAL

- Retail/POS Applications
- ATMs
- Kiosks
- Vending Payment Solutions



WIRELESS NETWORK CONNECTIVITY

- Fast & Reliable Primary/Back-up Connectivity
- Mobile and Portable Work Environments
- Industrial Automation Solutions
- Interactive Media Displays

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For more information

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Raven X Specifications



Physical Description

Dimensions	4.6" x 1.4" x 2.5"
Weight	0.7 lbs

Input Voltage

9 - 28V DC

Environmental Features

Operating Temperature Range	-30 / +70 °C
Storage Temperature	-40 / +85 °C
Humidity	95% RH, non-condensing

Power Consumption (@12V DC)

Transmit / Receive (typical / max)	239/270 mA
Idle	104 mA
Dormant	85 mA

LED Indicators

Network, Signal, Activity, Service, Power

Radio Features

EV-DO Rev. A with Fallback to EV-DO Rev. 0 and CDMA 1x
Dual-Band Support (800 MHz cellular and 1900 MHz PCS)
Receive Diversity

Data Rates

EV-DO Rev. A:	Downlink - 3.1 Mbps max; 450 - 850 Kbps typical
	Uplink - 1.8 Mbps max; 300 - 400 Kbps typical
EV-DO Rev. 0:	Downlink - 2.4 Mbps max; 300 - 500 Kbps typical
	Uplink - 153.6 Kbps max; 60 - 90 Kbps typical
CDMA 1x:	Downlink - 153.6 Kbps max; 60 - 90 Kbps typical
	Uplink - 153.6 Kbps max; 60 - 90 Kbps typical

Certification

Class I Div 2, Parts A, B, C & D

Host Interfaces

Ethernet	10/100 Mbps RJ-45
RS-232	DB9 DCE (300-230400 baud)
Antenna Connection	Primary - 50 Ohm SMA Receive Diversity - 50 Ohm SMA

Application Interfaces

TCP/IP, UDP/IP, DHCP, HTTP, SNMP, SMTP, SMS, MSCI, Modbus, and many more

ALEOS™ Technology

ALEOS, AirLink's embedded core technology simplifies installation, operation



and maintenance of any solution, and provides an always-on, always-aware intelligent connection for mission-critical applications. ALEOS enables:

- 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

Tools & Utilities

AirLink's 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.

Wireless Ace - Extensive remote management application reduces deployment and support costs throughout the project life cycle

- Network Connectivity, Throughput and Signal Strength
- Real-Time, Remote Device Status and Health
- Comprehensive OTA Device Configuration and Firmware Updates

AceView - Efficient status and connection monitoring application

- Low-Profile, Easy-To-Read, On-Screen User-Interface
- Modem Status, Connectivity, Signal Strength, GPS Signal and Mapping

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

- One-To-Many Device Configuration and Management
- Configurable OTA Parameter Settings and Firmware/PRL Updates
- Downloads Performance Statistics at User-Defined Intervals
- Charts Modem Statistics for Performance Analysis

Support Network

AirLink's continued industry leadership is based on a proven ability to make complex wireless data solutions work. This is accomplished with superior, high-quality products, exceptional tools and utilities and world-class technical support delivered by AirLink's responsive, highly-trained and experienced staff.

AirLink Communications

AirLink Communications, Inc., founded in 1993 and acquired by Sierra Wireless in 2007, delivers award winning wireless data solutions that enable pervasive connectivity to fixed, portable and mobile assets. Its continued industry leadership is based on a proven ability to make wireless data solutions work. Powered by the robust embedded intelligence of ALEOS technology, AirLink's multi-tiered product suite is versatile, reliable and broadly certified on major wireless networks throughout North America making AirLink solutions ideal for a vast range of applications. These devices, together with AirLink's comprehensive set of best-in-class tools and utilities, and exceptionally strong working relationships with network operators, integrators and application providers, simplify the deployment and management of complex wireless solutions. For more information, please visit www.airlink.com.