

Raven X

Powerful, Feature-Rich Wireless Networking and Communications Platform

Raven X

Wireless Data Communications Platform

HSDPA



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 HSDPA

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 a rugged aluminum case, the Raven X is Class I Division 2 certified ensuring intrinsic safety for operation in hazardous environments. The externally accessible SIM card streamlines installation and activation.

The Raven X is equipped with advanced High-Speed Downlink Packet Access (HSDPA) wireless technology. In addition, it is backwards compatible and automatically connects with existing and broadly deployed UMTS, EDGE, and GPRS 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

Power Consumption (@12V DC)

Transmit / Receive (typical / max)	293 mA / 318 mA
Idle	135 mA

LED Indicators

Network, Signal, Activity, Service, Power

Radio Features

HSDPA with Fallback to UMTS, EDGE and GPRS
Dual-Band UMTS/HSDPA (850 MHz and 1900 MHz)
Quad-Band GPRS/EDGE (850 MHz, 900 MHz, 1800 MHz, and 1900 MHz)

Data Rates

HSDPA:	
Downlink	1.8 Mbps max; 500 - 800 Kbps typical
Uplink	384 Kbps max; 220 - 320 Kbps typical
UMTS:	
Downlink/Uplink	384 Kbps max; 220 - 320 Kbps typical
EDGE:	
Downlink	236 Kbps max; 70 - 90 Kbps typical
Uplink	118 Kbps max; 50 - 60 Kbps typical
GPRS:	
Downlink/Uplink	57.6 Kbps max; 30 - 50 Kbps typical

Certification

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

Host Interfaces

Ethernet	10/100 Mbit RJ-45
RS-232	DB9 DCE (300-230400 baud)
Antenna Connection	Primary - 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, 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