

PinPoint X

Intelligent, Versatile, Mobile Networking and Communications Platform

PinPoint X

Mobile 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.

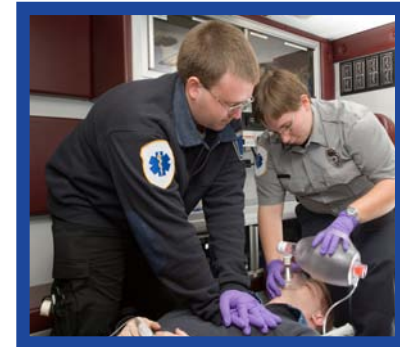
AirLink's fixed and mobile connectivity solutions have continuously evolved in parallel with the wireless technologies and broad applications served. AirLink's reliable embedded ALEOSTM technology and unmatched technical expertise have earned the company an exceptional reputation in the industry - *We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

PinPoint X EV-DO Rev. A

Powered by ALEOSTM technology, the longstanding industry benchmark for reliable and feature-rich embedded intelligence, the PinPoint X features advanced processing power and expanded memory within an enhanced scalable architecture optimized for high-speed cellular networks. By blending an always-on wireless broadband data connection with a high-precision integrated GPS receiver, the PinPoint X is the cornerstone of a powerful mobile data solution ideal for a broad set of mobile enterprise applications.

The PinPoint X is a compact, intelligent and fully-featured mobile communications platform with multiple peripheral connections including serial, Ethernet and USB. Expanded I/O functionality in a separate connector unleashes extensive remote instrumentation possibilities. Its high-precision 16-channel GPS receiver and the extensive location-based application services built in to ALEOSTM greatly enhance any tracking solution. The PinPoint X was designed from the ground up for the harsh environment of mobile data and vehicle tracking applications and it is certified to meet Military Standards for extreme temperature, shock, vibration, and humidity.

The PinPoint 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 PinPoint X ideally suited for a broad set of mobile enterprise, public safety, fleet management, real-time dispatch and AVL applications.



Pervasive Connectivity to Mobile Assets



FIELD FORCE AUTOMATION

- Utilities
- Service Fleets
- Mobile Office



PUBLIC SAFETY

- Police/Fire and Rescue
- Mobile Data
- GPS/Location



AUTOMATIC VEHICLE LOCATION (AVL)

- Transportation
- Fleet Management
- School Buses
- Trucking
- Rail



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

Tel: 510-781-9700

Fax: 510-781-9799

E-Mail: sales@airlink.com

WWW.AIRLINK.COM



PinPoint X Specifications

Physical Description

Dimensions	5.3" x 1.5" x 3.6"
Weight	1.35 lbs

Input Voltage

9 - 28V DC

Environmental Specifications

Extreme Temperature Range	MIL-Std 810F 501.4, 502.4
Vibration	MIL-Std 810F 514.5
Shock/Drop	MIL-Std 810F 516.5
Humidity	MIL-Std 810F 507.4
ESD	IEC 61000-4-2

Power Consumption (@12V DC)

Transmit / Receive (typical / max)	316/340 mA
Idle	166 mA
Dormant	145 mA
Low-Power Mode	90 mA

LED Indicators

Power, Network, Signal, Activity, Service, GPS

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
16-Channel GPS Receiver

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

Host Interfaces

Ethernet	10/100 Mbps RJ-45
USB	Type B
RS-232	DB9 DCE (300-230400 baud)
Antenna Connection	Primary - 50 Ohm TNC, Receive Diversity - 50 Ohm SMA, GPS - 50 Ohm SMA
I/O	4 Digital Inputs, 4 Analog Inputs, 2 Relay Outputs

Application Interfaces

TCP/IP, UDP/IP, DHCP, HTTP, SNMP, SMTP, SMS, NMEA, TAIP, GPS binary, MSC1

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 ALEOSTM 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

ALEOSTM Technology

ALEOSTM, 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.

ALEOSTM enables:

- Persistent Network Connectivity
- Over-The-Air (OTA) Upgrades
- Device Management & Control
- NMEA, TAIP, and LBS Application
- Real-Time GPS Reporting
- Wireless Optimized TCP/IP
- Packet Level Diagnostics
- GPS Store and Forward

Tools & Utilities

AirLink's best-in-class tools and utilities, leveraging the intelligence of ALEOSTM, 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.