iRX Wireless Application Platform

The iRX offers you access to a wireless data communication solution that enhances existing systems and workflow featuring voice, encryption and routing capabilities.

THE iRX: Your All Access Pass To Encrypted End-To-End Data Communication Solutions Featuring Push To Talk and Routing.

Secure, Rugged, Easy To Install, Simple To Integrate

Deploy a reliable and cost effective wireless solution for your business challenges. The iRX GPS-enabled wireless application platform uses iDEN® wireless technology to provide you with an All Access Pass to simple, dependable and cost-effective enterprise solutions.

Key Differentiators

- Data encryption, IPSec
- Ethernet 10/100
- Routing with NAT (Network Address Translation)

Optional Features

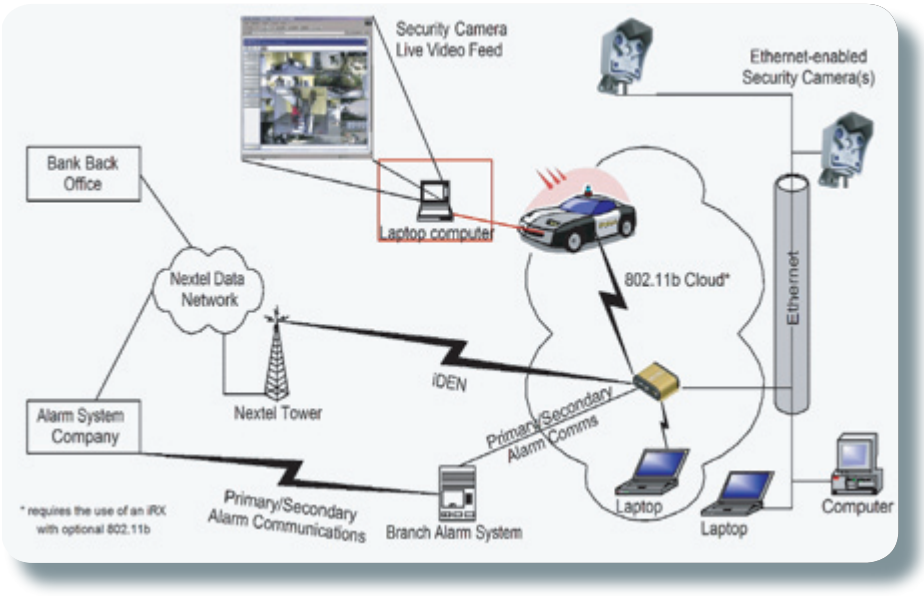
iRX Base Functionality:

- Non-volatile data logging
- RS232 interface with 6 indicator LEDs
- Ignition Sense
- Auto Registry
- TCP/IP
- USB-B
- An extendable modular design
- AT Command
- Laptop Hyper Terminal
- 32 bit microcontroller
- 802.11b wireless support
- Optional development kit
- GPS loop-back to user defined server
- Store, hold and forward for GPS and telemetry data
- Internal battery charging control circuit for remote operations

Integration For Various Applications

The stand-alone unit is an easy-to-integrate, cost-effective, 24/7 communication solution for applications such as:

- 802.11b mobile IP routing
- 802.11b wireless network routing (cloud)
- Ethernet iDEN routing
- Financial Services
- Telemetry



See The iRX In Action Today!

A break-away product, the iRX simultaneously supports iDEN, Ethernet, USB-B and 802.11b. The combination of these four networks supports 17 distinct routing applications. This diverse and flexible mix provides all-in-one functional coverage, by many demanding applications. Demonstrations available, contact sales@elutions.com.

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FEATURES AND BENEFITS

Routing
Support for networking over 2 wireless and 2 wired networks, combination creates 17 distinct network routing options. iRX uses NAT (Network Address Translation).

Over-The-Air Configuration Toolkit
Maintain device integrity across multiple operators and networks through a secure Over-The-Air Configuration Toolkit. Updates are initiated and received by the field devices automatically over the iDEN® network. This OTA firmware feature reduces maintenance cost and provides a valuable point of differentiation.

Reliability
The iRX wireless application platform is designed with the iDEN® wireless technology. This proven technology provides secure and reliable communication, a superior experience due to it's use of a honeycomb of T1s, functioning independently of the public switch telephone network.

Integrated GPS
The iRX provides latitude and longitude position information to track vehicle location from virtually anywhere.

Flexibility
Optional Software Development Kit (SDK) allows infinite customization of onboard applications, allowing you to adapt the unit to your specific enterprise needs.

Connectibility
Interchangeable local interface boards facilitate the connection of a wide range of local devices.

Compatibility
A powerful 32-bit micro controller, a capable Real-Time Operating System (RTOS) and plentiful RAM and data storage combine to empower the iRX to conquer the most demanding distributed applications.

Remote Data Telemetry
The iRX device can be powered by multiple sources, including vehicle line power and solar panels, to provide data from remote locations.

TECHNICAL SPECIFICATIONS

Radio
Motorola i30sx equivalent

GPS Option
NMEA 0183
TAIP & TSIP Optional

Standard I/O
RS-232; GPS and diagnostic connectors
Ethernet
Ignition Sensor

Power Inputs
Voltage: 7 to 20 VDC (12 VDC nominal)
Input current: 0.1 amps steady state – 1.1 amps transient peak

Antenna Inputs
50 Ohm Impedance
Mini UHF for modem
MCX for GPS
RPSMA for 802.11b

Optional I/O
Synchronous Serial Card (bisync, SDLC)
Expanded I/O (8 digital in/out) Contact ISE or manufacturer to configure
Bluetooth®, CAN, LON, USB-A Contact ISE or manufacturer to configure
RS-485, 802.11b

Weight
600 grams

Shock and Vibration Conformance
Per MIL-STD-810E and TIA/EIA 603

Field Diagnostics
Laptop HyperTerminal interface

Case
Gold anodized aluminum extrusion chassis and plate metal faceplates, Base unit with flange at either side for direct mounting, Dust and water resistant, splash proof cover

Dimensions
Approximately 5.04"W x 2.21"H x 8.10"D
12.80cm W x 5.61cm H x 20.57cm D

Environmental Parameters
Operating Temperature -25C to +60C
Storage Temperature -40C to +85C
Operating Humidity 0 to 95% RH non-condensing at +50C

NEXTEL COMPATIBLE SOLUTION