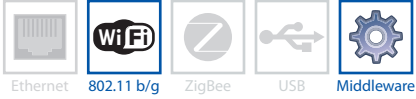
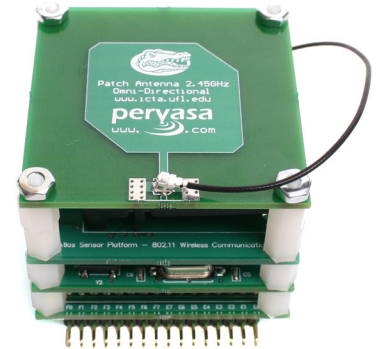


Atlas Wi-Fi Development Kit

Product Brochure



Atlas™ Sensor Network Products



Atlas Wi-Fi Development Kit

Wireless Sensor Networks using 802.11 b/g

Each Atlas Wi-Fi Development Kit includes:

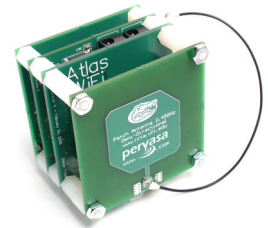
- 1 AtlaSoft Middleware 1.5 (3 device license) with sample service-oriented application
- 3 Atlas Wi-Fi 802.11 Communication Modules
- 3 Atlas Processing Modules
- 1 Atlas 32-pin Analog Sensor Interface Module
- 1 Atlas 16-pin Digital Contact Interface Module
- 1 Atlas 6-device Servo Interface Module
- 1 Force Sensing Resistor Sensor
- 1 Digital Contact Switch Sensor
- 1 RC-compatible Servo Motor
- 3 5.0 V DC Power Supplies w/ US-style AC Plug
- 1 802.11 b/g High Speed Wireless Router
- 1 3.3 V DC Power Supply w/ US-style AC Plug
- 1 Cat5E Ethernet Cable
- 1 Atlas User Guide
- 1 Durable Plastic Carrying Case

AtlaSoft™ Middleware

Creating service-oriented applications has never been easier. Using Atlas hardware and the AtlaSoft Middleware version 1.5, feature rich sensor and actuator network-based applications are developed in hours, not days.

Atlas Platforms

The development kit comes with three Atlas Wi-Fi 802.11 b/g Sensor Platforms – one for connecting 32 analog sensors, another for connecting 16 digital contact sensors, and a third for connecting DC servomotors. The abundance of sensor connections allows for applications that interact meaningfully with the physical world.



Sensors

With the AtlaSoft Middleware, traditional analog and digital sensors are transformed into Java software objects. This allows the developer to quickly and easily integrate real sensor data into an enterprise application. The development kit includes one analog and one digital sensor to jumpstart the fast, easy and reliable use of service-oriented development.

Actuators

Much like sensors, actuators are also used by developers as Java software objects. Within minutes, DC motors, servos, relays, solenoids and other actuators can be controlled from within Java applications.

Sample Application

The sample application and source code delivered with the development kit shows how easy it is to connect a range of sensors and actuators to a custom application.



Included Sample Application



AtlaSoft Middleware

Atlas Development Kits offer researchers and practitioners a hassle-free sensor and actuator network. This network allows for rapid and effortless development of sensor and actuator based systems and prototypes. All varieties of Atlas Development Kits can be used as standalone rapid prototypes or together to build an entire network.

About Atlas

Atlas is a combination of software and hardware components that together make developing sensor and actuator based systems possible. The software middleware, AtlaSoft, serves as the server backend and provides an environment on top of which software applications are built. The AtlaSoft framework enables software representations of sensors and actuators, and gives the developer the tools necessary to create extensible applications using any connected device.

Atlas hardware devices communicate with AtlaSoft to deliver data to and from applications. The transport medium – Ethernet, 802.11 b/g, ZigBee or USB, for example – is abstracted away by the middleware. Reading sensors or performing actuation is as simple as calling the proper functions. This shift in developer focus away from low level implementation details accelerates application development.

Typical Atlas Applications

The range of Atlas products creates the perfect research or system integration tool for many disciplines and industries.

- Pervasive Computing
- Smart Homes and Smart Spaces
- Civil Structure Health Monitoring
- Industrial Monitoring and Control
- Machine to Machine Communication (M2M)
- Remote Sensing and Data Acquisition
- Fleet and Asset Tracking
- Homeland Security
- Healthcare
- Robotics

About Pervasa

Pervasa is a developer and supplier of innovative technologies and services in the fields of M2M and sensor networks. Founded in 2006 and based on University of Florida research, the company specializes in products that enable the rapid development of robust and feature rich applications that are able to sense and control the physical world.

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