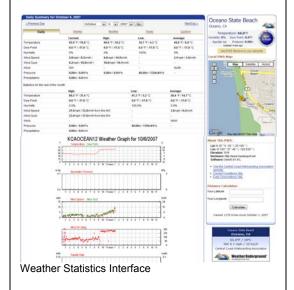
HR-IXPWIND Wireless Remote Weatherstation

Features

- ✓ High Performance Network Processor for near wire speed packet forwarding
- ✓ Ruggedized outdoor enclosure
- ✓ Reliable and secure on-board flash for booting the HauteRoute OS™ operating system
- ✓ Simple to configure browser management interface
- ✓ Choice of high gain radio modules supporting 900Mhz at up to 700mW, 2.4Ghz at up to 400mW, 4.9 GHz 400mW or 5Ghz at up to 400mW
- ✓ 10/100 Base-TX Ethernet port (with auto MDI/MDIX)
- ✓ Reverse voltage and transient protection
- √ 6W typical operating power with radios at full power. Can be solar powered
- √ 0°C to 70°C operating temperature
- √ 0 to 90% Operating Humidity
- √ 32Mbytes SDRAM
- ✓ Complete weather monitoring solution
- ✓ Integrates with Weather Underground, HAM Weather or Citizen Weather Observer Program
- √ Plug and play operation with any 802.11 network or use with Public Safety or 900MHz bands.





Complete remote wireless weather station. Shown with optional antenna.

The HauteWind Wireless Weather Station is a complete, turn key solution for remote weather monitoring. Combining high performance broadband wireless networking, full feature application support including Web server, a variety of weather sensors, and the ability to integrate virtually any IP camera, this is the perfect solution for remote data gathering at distances up to 26 miles*.

With the flexibility to select a radio module to suit your application need, the HauteWind Wireless Weather Station can be placed miles from the nearest broadband network connection, regardless of terrain, obstructions, or weather. As the client of a point to multipoint network, it can easily connect to any existing 802.11, public safety or 900MHz broadband based network

The base package includes the wireless client bridge housed in a waterproof NEMA IP 6/7 enclosure, Power Over Ethernet injector, temperature sensor, anemometer (wind direction and wind speed), and barometer. You can also select the appropriate radio module for your application: 900MHz for long distance through trees or over moderate obstructions but at lower data rates (limits video streaming throughput); 2.4GHz (802.11b/g) for near line of sight operation at higher data rates; 4.9GHz for Public Safety Agencies; or 5GHz (802.11a) for the highest data rate in line of sight operation. HauteSpot Networks offers a wide array of complimentary antenna solutions as well, to fit almost any need (antennas are not included with the product).

As a wireless client bridge, the HauteWind Wireless Weather Station can be integrated with virtually any IP camera, just attach the camera via a cross over cable or Ethernet hub to the HR-IXPWIND and you are streaming video as well as weather data



Processor Board Hardware Features:

- Intel XScale IXP Network Processor
- 10/100 Base-TX Ethernet Ports (with Auto MDI/MDIX)
- On-board, non-removeable, secure flash storage
- RS-232 Serial Port for Sensors
- Watch-Dog Timer
- Wide Input Voltage (9 to 48VDC)
- Supports Power Over Ethernet (PoE)
- 0°C to 70°C Operating Temperature

Wireless Radio Features:

- 900 MHz, 2.4GHz, 4.9GHz and 5GHz operation using 802.11 protocol
- Up to 152-bit WEP data encryption with TKIP, WiFi Protected Access (64,128,152-WEP with TKIP)

Environmental Monitoring Functions:

- Temperature
- · Wind Speed and Direction
- Optional Sensors for: barometric pressure rain gauge relative humidity, gamma radiation soil acidity soil moisture battery level fuel level

Ordering Information

HR-IXPWINDi – indoor system (see separate data sheet)

HR-IXPWIND-9 – 900MHz remote weather station

HR-IXPWIND-2 – 2.4 GHz remote weather station

HR-IXPWIND-4 – 4.9 GHz remote weather station (For sale to Law Enforcement or export only

HR-IXPWIND-5 – 5GHz remote weather station

Options:

WA-Barometer – barometric sensor option

WA-Rain – rain gauge sensor option

WA-TempHumidSolar – additional temperature, relative humidity and solar radiation sensor option

WA-SerialAD - replacement senor adapter

All systems require a base station unit operating on the same frequency which is connected to an always on Internet connection. For ordering information and assistance, call HauteSpot Networks.

Electronic components warranted for 1 year.

The HauteWind Wireless Weather Station is a small form factor solution, which allows for it to be placed in a variety of locations from antenna towers, to neighborhood light posts, to a residential rooftop to the roof of a truck, rv or boat. The low profile aluminum enclosure is waterproof, vandal resistant, easy to mount, and corrosion resistant. The connectors are water and vapor tight and allow for easy connection of both power and antennas without the need to even open the case.

The HauteWind Wireless Weather Station draws less than 10 Watts and can be powered by optionally available solar/battery systems, vehicle power or standard AC power.

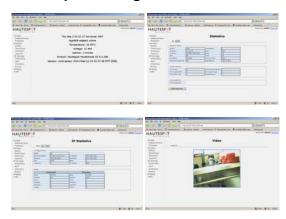
In addition to being a powerful weather monitoring solution, the HauteWind Wireless Weather Station can also be used as a wireless client bridge, allowing users in remote locations to have broadband network connectivity. For Public Safety agencies, such as fire departments, public works, or Public Utilities, this is an ideal way to provide secure, remote connectivity. With support for adaptive rate control, and XR extended range support, users will be able to maintain reliable connections in the most difficult locations.

All of the features of the HauteWind Wireless Weather Station can be managed through a simple Web interface, accessible through any browser.

The integrated Wind Direction and Speed Sensor, and Temperature Sensor are all readable from within the web interface.

Additional sensors for barometric pressure, battery life, solar radiation, leaf moisture, gypsum soil sensor and others are available for custom integration.

Sample Management Interface



HauteSpot Networks

3450 Sacramento Drive

Suite A

San Luis Obispo, CA 93401 Phone: 805-541-WISP (9477)

Fax: 805-456-3829