



# Datasheet

## Waveport™

ACCESSING WAVENIS SENSOR NETWORKS  
FROM FIXED PCs AND MOBILE HANDHELDS



Complete mobility and easy access to installed Wavenis sensor modules of all kinds – Waveport gives you both. With USB, Compact Flash/PCMCIA card, serial or bluetooth connections for your laptop or handheld PC, Coronis Waveport is the ideal accessory for reading, controlling, and configuring Wavenis-based wireless sensors in a wide variety of industrial, domestic, and professional applications.

Whichever connection type you choose, this versatile product lets you connect mobile equipment directly to installed Wavenis nodes in wireless mesh networks.

Waveport is as useful in automatic metering, telemetry, and industrial monitoring, as it is in access control, security, healthcare, and UHF RFID systems. Use it with your application-specific software to read and control remote sensors quickly and wirelessly, saving the time and expense of manual operations. This device is the standard Wavenis node access point. (wireless modem)

### Easy connections for software tools

With its Win 32 DLL, Active X drivers and SDK, there's no limit to the applications you can use with Waveport. Our fully documented application programming interfaces (APIs) allow you to write custom applications to meet your exact needs, and to configure Waveport's internal parameters and services to match your installed network nodes. Frequency hopping (FHSS) and data interleaving ensure robustness and interference-free wireless operation. From network configuration and administration to walk-by data monitoring, Waveport provides a robust connection to the entire line of Wavenis-powered solutions.

- Access Wavenis networks with mobile computers and handhelds in walk-by scenarios
- Manage Wavenis LAN configurations from your PC
- USB, RS-232, or Compact Flash (type II) or bluetooth link.
- Benefit from wireless features for your software applications



*Indispensable field tools for wireless mesh sensor networks*



## Waveport™ Specifications

### General features

- Integrated Wavenis platform with protocol stack
- 25mW class for ultra low power
- 500mW class for very long-range (only serial version)
- Temperature range:
  - Operating -20° / +70°C (-4° / - 158°F)
  - Storage -40° / +85°C (-40° - 185° F)
- Dimensions
  - USB:** 9.6 x 4.7 x 2.4 cm (3.7 x 1.9 x 0.9 in.);
  - Serial:** 5.5 x 2.5 x 10 (2.2 x 1 x 0.4 in);
  - CF II:** 5.2 x 4.3 x 0.6 cm (0.2 x 1.7 x 0.2 in)
  - Bluetooth:** 5.2 x 4.3 x 0.6 cm (0.2 x 1.7 x 0.2 in)
- Delivery package:
  - USB:** device with 1 m USB cable( self power supplied)
  - Serial:** device with crossaver serial cable, 5vdc adaptor & external antenna.
  - CF II:** device with external antenna ( self power supplied)
  - Bluetooth:** device with external antenna and battery charger.

### System requirements

- Windows® 98, Me, 2000 or XP, Vista,Seven or Windows Pocket PC and CE.net / Mobile 2003
- USB or serial port or bluetooth for external Waveport
- CF (or slot for using CF card with PCMCIA adapter)

Waveport products use the Coronis Wavecard, and may be branded with your company name and logo. Please inquire about using this solution in your own custom-designed products. Write to [marketing@coronis.com](mailto:marketing@coronis.com).

|           | Power |              | Frequencies |            |            |
|-----------|-------|--------------|-------------|------------|------------|
|           | 25 MW | 25/<br>500MW | 433<br>MHz  | 868<br>MHz | 915<br>MHz |
| USB       | x     |              | x           | x          | x          |
| RS232     | x     | x            | x           | x          | x          |
| CF II     | x     |              | x           | x          | x          |
| Bluetooth | x     |              | x           | x          |            |