

## FireFly/BluePort XP Questions and Answers

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**Note: BlueportXP and Firefly both utilize Roving Networks advanced embedded Bluetooth modules, and all software features are compatible to both units.**

**What is BluePort?** BluePort is a Bluetooth serial adapter that can Bluetooth enable any RS232 serial port and allow data to be transmitted and received using Bluetooth enabled client devices.

**How is a connection made?** BluePort uses the Serial Port Profile and connections are initiated by clients, who first discover a BluePort and then connect to the device.

**Can multiple simultaneous connections be made?** No, only one at a time.

**Can multiple clients make a connection?** Yes, there is no limit, other than the limit of 7 total devices in a Bluetooth piconet.

**Can a single client connect to multiple BluePorts?** Yes. Nothing in the design of Blueport or Bluetooth prevents this, however, and many Clients, such as WidComm stack can do this in the standard software. Some software vendors offer SDKs with which a customer can write their own client that can do this.

**What clients are supported?** All known Bluetooth clients which support serial port profile, including Widcomm, Belkin, 3Com, Ambicom, Dlink, Symbol, HP/Compaq Pocket PCs, Toshiba laptops and PDAs, IBM cards, Motorola cards, Digianswer cards, Palms with SDIO cards and built in Bluetooth(tungsten). PocketPC with Widcomm stack, and built in Microsoft (Windows mobile 5 ) stack.

**Can two Blueports be connected to each other, to enable a single point to point cable replacement:** Yes, this is very simple, you just set a couple of Dip switches, and viola !

**Can Blueport settings be changed?** Yes!! Serial Link settings such as baudrate, can be configured by the user using simple AT commands, both from serial port, and over Bluetooth.

**What physical connectors are available?** Blueport XP has aDB9 male which has the same pinout as the PC. On the FireFly, you can order either male or a female DB9 option

**What baudrates are supported.** 9600 or 115200 are default settings via a Dip switch. Signaling at any baudrate from 1200 to 464,000 baud is supported. Parity even, odd, or none. Stop bits fixed at 1. Data bits 8 by default (7 bits supported with special firmware, contact Roving Networks to order this).

**How is the device powered?** The FireFly can be powered by an external 5vDC wall adapter, or from the DB9 on Pin 9. BlueportXP contains a built in battery.

**What is the range?** Blueport is a class 1 high power device, and as such can achieve a 100m range. The FireFly antennae is internal, and a typical useful range is 150-200feet in an office environment. BlueportXP has an external SMA connector with ANT, and with optimal ANT range can be increased. Actual range depends upon environment and the type of client, for example, a class 2 client will limit the range due to the low power transmitter on the client.

**What is the power consumption?** Blueport only draws 1-10ma when idle (not connected), and averages 75ma at 3.3VDC when connected and transmitting/receiving data.

**Is hardware flow control supported?** Yes,RTS/CTS handshaking is supported.

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431 Monterey Aven, Suite 5 Los Gatos, CA 95030, USA  
Phone: +1-408-395-6539, Fax: +1-603-843-7550