

**FCC Part 15 Certification**  
**Test Report**

**2402MHz – 2474MHz**  
**Frequency Hopping Spread Spectrum Transceiver**

**FCC ID: R2K-IES-SP-BLUE**

**FCC Rule Part: 15.249**

**ACS Report Number: 04-0116-15C249**

Manufacturer: Industrial Electronics Services  
Model: Serial Pup

**Installation and Operators Guide**

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Properly powered • is the baud rate on the module matched to the attached device • Ensure that you are using the correct BT address and that your master device is capable of a SPP and SDAP connection.

## SUPPORT

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Should you still not be able to operate your device, technical support is available by calling (423) 477-0118 M-F from 8:00 A.M. to 5:00 P.M. E.S.T. Or you can e-mail your questions to [support@iesgray.com](mailto:support@iesgray.com)

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# INDUSTRIAL ELECTRONICS SERVICES

## SERIAL PUP USERS GUIDE

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*Future Solutions Now*



Industrial Electronics Services

213 Suncrest St.  
Gray, TN 37615  
Phone (423) 477-0118  
Fax (423) 477-8700

# SERIAL PUP

## FCC Notice:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

## WARNING:

Changes or modifications to this device not expressly approved by Industrial Electronics Services could void the users authority to operate the equipment.

## RF EXPOSURE

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation of 20cm.

### *Operation and Setup Instructions*

## SETUP

The serial Pup connects directly to the serial port of your device through a DB9 connection. Connect the device to the unit and secure it with the 4-40 screw locks. The Serial Pup can be powered in two ways, which are preset at the factory, either through the DC power jack, or through Pin 9 on the DB9 connector. Apply power to the device. You should see the power LED illuminates. If you do not, check your power connections.

## BAUD RATE

The baud rate of the device is configurable from 1200bps to 921kbps. This option is preset at the factory. Should your application require a baud rate change, please contact the factory for assistance.

You need to ensure that the baud rate of the serial data being sent into the Serial Pup matches the baud rate set in the NVS of the device.

## LINK ESTABLISHMENT

If you are using a single Serial Pup, it will be configured as “**Discoverable**” and “**Connectable**” at the factory. This will

enable any **BLUETOOTH®™** device to communicate and link to it. If you have a set of Serial Pup’s, they will be paired at the factory so that no user intervention is required to establish communications.

Each Serial Pup has it’s own Name and Address, which will be on the label on the bottom of the device. Both the name and address are configurable. Please contact the factory for assistance with this option.

Once you have the address of the Pup, establish the connection with your remote device. Once linked, you will see the link light illuminate. If you do not see the light, power off the module for 30 seconds and repeat the link process.

The module is now ready to pass data from your application. To end the link, either terminate the link from your remote device, or simply power off the module. If you terminate the link, without removing power, wait for the link LED to go out before trying to re-establish a link. This takes approximately 20 seconds.

## TROUBLE SHOOTING

In the unlikely event that you cannot get your device to operate properly, re-check your settings prior to calling the factory for assistance. This would include the following

- is the DB9 securely and properly connected
- is the device