

## InfoWave™ Configuration for Cable Replacement

InnoMedia's InfoWave can be programmed to replace a long (up to 800 feet) RS-232 cable without requiring any software installation. If you need the cable-replacement configuration, please contact InnoMedia.

InfoWave uses hardware flow control to ensure reliable data transmission. Your PC COM port needs to be configured as shown in Figure 1, where the baud rate is set at 9600 bps. For other baud rates, you can change the "Bit per second" setting accordingly.

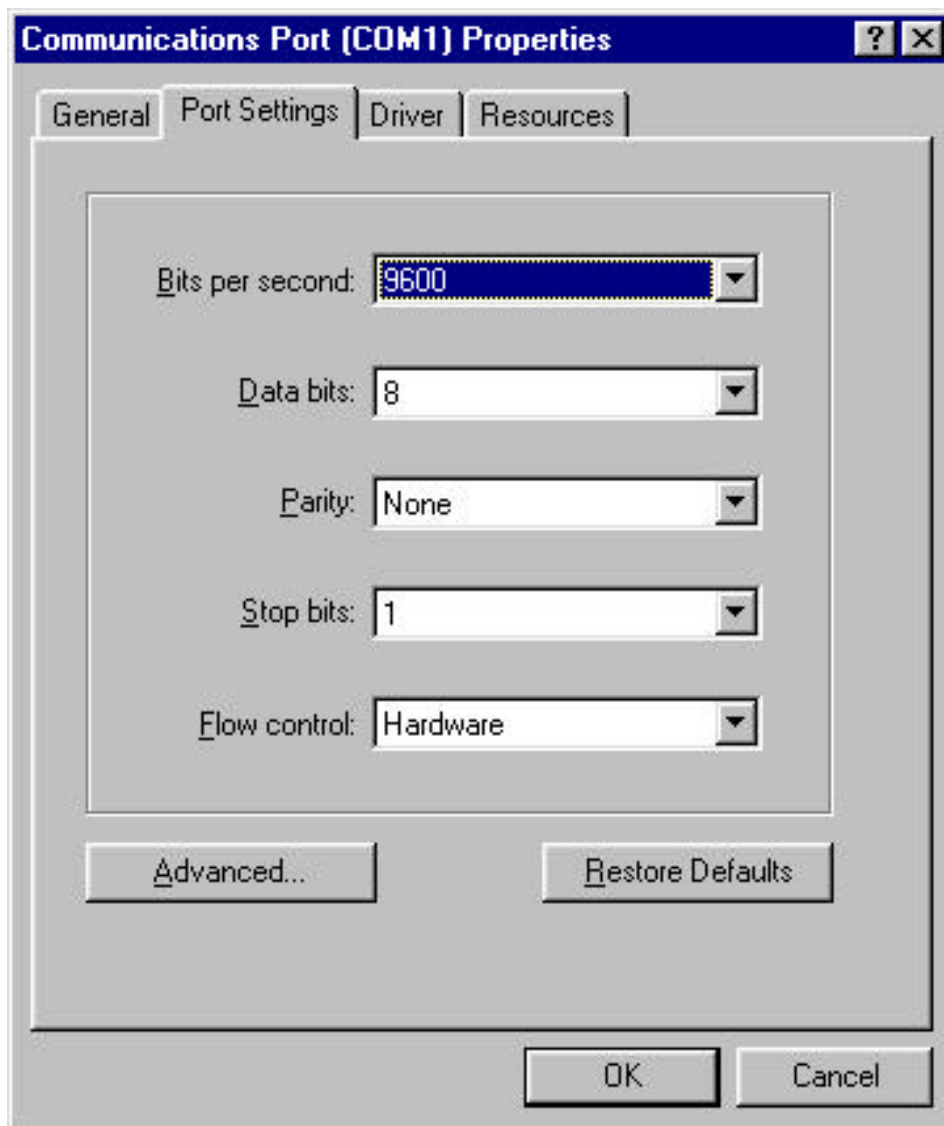


Figure 1. Computer COM port setting.

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For a device does not support hardware flow control, special cable wiring is needed to bypass the hardware flow control. *Pin 4, 7, and 8 of the InfoWave female connector need to be connected together.* Figure 2 and Table 1 show the female connector layout and pin assignment respectively. Note that once the hardware flow control is disabled, the user needs to exercise caution to prevent data overrun that can result in loss of data packets.

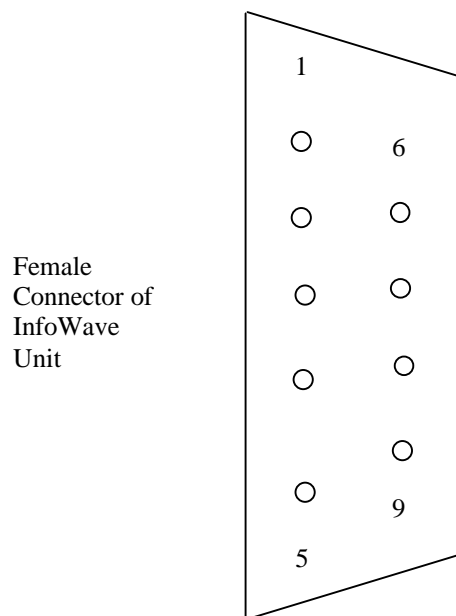


Figure 2. InfoWave female connector

Pin No.	Pin Name	I/O (DCE)	I/O (DTE)	Remark
1	/DCD	O	I	In DCE mode, when the radio link is established, DCD is asserted. When the link is torn down, DCD becomes de-asserted.
2	RXD	O	I	
3	TXD	I	O	
4	/DTR	I	O	In DCE mode, DTR must be asserted before data can be sent out normally.
5	GND	-	-	
6	DSR	O	I	
7	/RTS	I	O	Hardware flow control signal.
8	/CTS	O	I	Hardware flow control signal.
9	/RI	O	I	

Table 1. Pin assignment of 9-pin female connector

**For device does not support hardware flow control, *Pin 4, 7, and 8 of the InfoWave female connector need to be connected together.***

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If two InfoWave units are configured for replacing an RS-232 cable, the unique identification code of this pair is pre-set during the manufacturing process. A synchronization step is needed when two units fail to connect to each other due to a new firmware upgrade or another pair of InfoWave operating in the close proximity.

The synchronization steps are:

- 1.) Turn off the power of each unit by pressing the power switch.
- 2.) If it is a DCE InfoWave unit, which connects to a computer, slide the switch to DTE side, and if it is a DTE InfoWave unit, which connects to a modem, slide the switch to DCE side.
- 3.) Turn on the power of each InfoWave unit by pressing the power switch again.
- 4.) After each unit's PWR LED has slowly blinked 3 times and then begun to flash faster, slide the switch back to the original position.
- 5.) The PWR LED will now slowly blink 3 times and then light up solid.

After these steps are completed, the two InfoWave units should be able to operate flawlessly. If you still encounter any difficulties, please contact InnoMedia's technical support.

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