Bluetooth Development Kit (BTDK)  
For Palm Operating System 3.5

The WAVEClip BTDK opens the door to limitless wireless communication possibilities. Imagine having the power to link wirelessly to another Bluetooth device anywhere within a 10m radius - dial a phone, print a document, play games, send contact information. The API provided in the WAVEClip BTDK is designed with existing serial communication Palm OS applications in mind. With minimal modifications, serial cable connectivity in existing PalmOS applications can be replaced by Bluetooth connectivity\(^1\).

With the WAVEClip, programmers can easily incorporate Bluetooth technology\(^2\) into their Palm OS applications. Since the intricacies of Bluetooth communications is handled inside the WAVEClip, designing Bluetooth enabled Palm OS applications is as easy as designing a serial commms Palm OS applications.

### Features

- Bluetooth enabled PalmOS sample applications (with source code) to speed up understanding of WAVEClip applications development.
- Over 30 callable functions give control over the HCI (Host Control Interface), RFComm layers, and SDP (Service Discovery Protocol) and Mgn (WAVEClip management) sub-systems of the WAVEClip.
- WAVEClip API is distributed as a PalmOS shared library (WAVELib). Different WAVEClip apps need only 1 copy of WAVELib in the host PalmV handheld.
- User interface components necessary for discovery, configuration, pairing, pass key entry, data transfer etc.

### Contents

- 2 units of Bluetooth SIG-Certified WAVEClips.
- 2 units of Palm OS Emulator (POSE) Debugging Cables.
- User guides and documentation.

The POSE Debugging Cable is a serial cable that allows Palm OS Emulator (POSE) to communicate with the WAVEclip and other Palm V compatible add-on sleds. Using the supplied POSE debugging cable, Bluetooth applications for the WAVEclip can be developed entirely with POSE.

### Pricing & Availability

WAVEclip BTDK - US$599.00  
POSE Debugging Cable - US$39.95  
Software drivers can be downloaded FREE at [www.sunland-group.com](http://www.sunland-group.com)

Both items are now available online through [www.jbronline.com](http://www.jbronline.com)

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1 Bluetooth As Cable Replacement Technology

The WAVEclip implements Bluetooth communication and Dial-up networking (DUN) profiles. Most operations that used to require serial cables can now be done without. However, there are certain instances when the WAVEclip does not emulate a serial cable faithfully. The following points should be noted:

- As with all forms of wireless communications, the rate of throughput is not constant. The WAVEclip strives to maintain the highest baud. Therefore, operations that demand constant baud may fail.
- The WAVEclip uses CTS/RTS (Clear To Send/Ready To Send) signaling for hardware flow control with the Palm handheld. Operations that perform non-standard CTS/RTS hardware flow control may fail.

2 Bluetooth Technology

Bluetooth is a global specification for small form factor, low-cost wireless communication and networking between PCs, mobile phones and other portable devices. Endorsed by handheld and telecommunications manufacturers, Bluetooth uses an omni-directional signal to connect multiple devices up to 10 metres apart. It replaces cables and promotes seamless voice and data transmission via wireless, short-range radio.