XTNDConnect® Blue SDK for Windows CE

(Version 1.1)

Extended Systems®
Beyond Connected®

Bluetooth Protocol Stack and APIs for Windows CE

XTNDConnect Blue SDK for Windows CE is a software development kit that enables mobile device manufacturers to incorporate Bluetooth functionality into their Windows® CE and Pocket PC based products. Derived from Extended Systems' proven embedded development kit, the Windows CE kit provides a pre-qualified Bluetooth protocol stack with sample applications and application programmer interfaces (APIs) for select Bluetooth profiles. The SDK implements Bluetooth according to specification version 1.1 and targets version 3.0 of Microsoft's Windows CE and Pocket PC operating systems.

Designed to give embedded Windows CE developers control of Bluetooth wireless technology, XTNDConnect Blue SDK for Windows CE streamlines the development process and enables customers to rapidly develop customized Bluetooth communication applications for their mobile computing devices.

Bluetooth Protocol Stack for Windows CE

For XTNDConnect Blue SDK for Windows CE, Extended Systems has ported and expanded its Bluetooth SIG qualified embedded protocol stack to Windows CE 3.0 and Pocket PC 3.0 operating systems. The stack, which is provided in source code, enables device manufacturers to compile it for the specific processors and display sizes of their CE-based devices.

Profile API, Bluetooth Stack API and Inter-Process Communication Layer

XTNDConnect Blue SDK for Windows CE includes two levels of APIs and an Inter-Process Communication layer to help programmers develop quality Bluetooth applications for CE-based devices.

The kit's high-level APIs such as the Monitor API and Serial API simplify the development of applications by minimizing the need for application developers to understand the details of the Bluetooth specification. By using the APIs, programmers are able to quickly incorporate Bluetooth functionality and support legacy applications. Version 1.1 includes API support for Generic Access, Service Discovery Application, Serial Port, Dial-up Networking, LAN Access and Object Push profiles.

A set of lower application programmer interfaces is provided in the SDK's Bluetooth Stack API. These APIs require more understanding of the Bluetooth specification and are available for developers who are comfortable working directly with the Bluetooth protocols. With the Bluetooth Stack API, programmers can develop their own higher level APIs and applications for various Bluetooth profiles.

XTNDConnect Blue SDK for Windows CE also provides an Inter-Process Communication layer that sits between the Bluetooth stack and the lower and higher-level APIs. The IPC layer enables multiple applications to operate simultaneously with the stack and allows users to load after-market programs in the field. With the IPC layer, CE developers are able to increase the useful life of their products and provide a richer set of features.

XTNDConnect Blue SDK for Windows CE 1.1:

- Bluetooth protocol stack
- Inter-Process Communication (IPC) layer
- APIs for Generic Access, Service Discovery Application, Serial Port, DUN, LAN and Object Push
- Support for legacy applications through the standard Win32 COM Port API
- Sample Mini-Monitor and sample Serial application
- Bluetooth UART Serial radio driver
- Development test tools and documentation

Supported Operating Systems:

- Windows CE 3.0
- Pocket PC 3.0

Bluetooth™

Data Sheet

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Sample Mini-Monitor and Serial Applications

The SDK includes a Mini-Monitor and Serial sample application that gives programmers a starting point for developing their own custom Bluetooth communication applications. They are provided in both source and binary code and can be used to demonstrate basic Bluetooth functionality using existing CE platforms such as the HP Jornada or Compaq iPAQ.

Processor Support

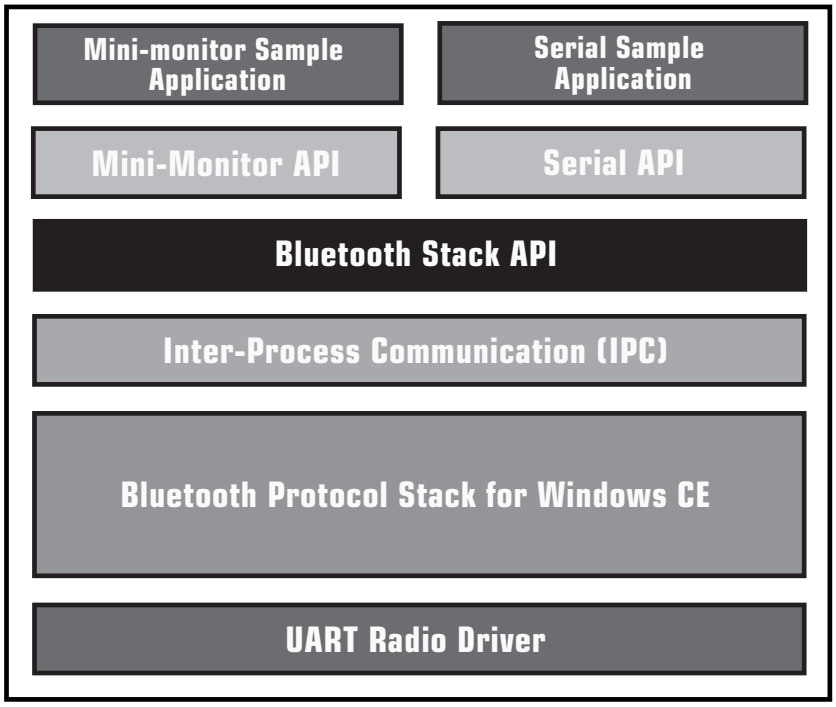
The stack has been designed to provide support for a full range of microprocessors (uP) and user interface (UI) environments, giving customers the ultimate in flexibility and control. By delivering the stack in source code, programmers are able to compile it for any Windows CE supported uP. Initially, Extended Systems has tested the stack with the following processors:

- StrongARM SA-1110
- SH3, SH4
- MIPS VR4121

Bluetooth Radio Driver

Version 1.1 of XTNDConnect Blue SDK for Windows CE includes code for a sample UART radio driver. It is provided in source and binary code formats, enabling programmers to jump start their development of their own custom hardware drivers.

XTNDConnect Blue SDK for Windows CE



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