

Wireless Development System (WDS) 4.0

Product Summary
Advance Information

INTRODUCTION

Silicon Wave's Wireless Development System (WDS) for Bluetooth™ wireless communications is a combination of hardware and software tools supporting product development. The WDS is a reliable and flexible development platform based on Silicon Wave's solutions that include the SiW1701 Radio Modem IC, the SiW1750 Link Controller IC, and lower layer Bluetooth protocol software.

DESCRIPTION

The WDS unit is used to exchange digital transmissions of host controller interface (HCI) packets of various lengths and contents. Each WDS unit contains a SiW1701 and a SiW1750. Software loaded into memory enables communications with the host PC over a UART or USB connection and passes commands on to the controller and radio modem.

The microprocessor executes protocol stack software up to the HCI level that is pre-installed in flash memory. The WDS also serves as a platform to evaluate the perfor-

mance of the SiW1701 and SiW1750.

APPLICATIONS

The WDS provides a flexible platform for:

- Development of application software, embedded firmware, or interface hardware.
- Development of protocol-stack software for Bluetooth wireless technology above the HCI level.
- Application-specific hardware development for the SiW1701 and SiW1750.
- Software development and testing on host PCs for Bluetooth wireless technology.
- End-to-end system testing over the Bluetooth radio link.
- Evaluation of Silicon Wave's SiW1701 and SiW1750 ICs.
- Antenna design and performance evaluation.



Wireless Development System 4.0 for the SiW1701 and SiW1750



BLUETOOTH SOLUTIONS

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FEATURES

Hardware

- Silicon Wave's SiW1701 Radio Modem IC and SiW1750 Link Controller IC with antenna for over-the-air connectivity.
- USB or UART interface to host PC.

Software

- Protocol stack software up to the HCI layer pre-installed.
- WDS Commander application software for reference and testing.
- Software can be ported to final target platform.

WDS Kit Components

Qty	Item
1	Wireless Development System unit.
1	Standard straight-through 9-pin serial cable.
1	Standard USB cable.
1	Universal 120/240 V AC power adapter.
1	CD-ROM: <ul style="list-style-type: none">• <i>ReadMe.txt</i>, general release notes (text file)• <i>Protocol Release Notes</i> (.pdf file)• <i>License.txt</i>, license agreement between Silicon Wave and the user (text file)• <i>Wireless Development System User's Guide</i> (.pdf file)• <i>WDS Commander User's Guide</i> (.pdf file)• <i>WDS Configuration Utility User's Guide</i> (.pdf file)• WDS Commander software• WDS Configuration Utility software

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