

Bluetooth™ Development Kit



Description

Approved as a Blue Unit by the Bluetooth SIG, the Ericsson Bluetooth Development Kit reduces the effort required to get started with your Bluetooth applications. It dramatically cuts development time and costs, speeding up time-to-market.

The kit enables early adopters of the technology to accelerate the production of prototype applications, quickly and easily. It provides a complete and flexible design environment, within which engineers can seamlessly integrate the new open wireless standard into a range of digital devices for volume production. Providing access to all hardware interfaces, the kit is

ideal for developing both embedded and standalone applications. Extensive hardware and software debugging facilities are included, to help make the design process as quick and easy as possible. Designed to meet the needs of first-time Bluetooth Developers and users, the kit's outstanding scaleable architecture demonstrates the essential features of the Bluetooth technology. This allows developers to create an integrated application board for prototype products, thus saving time to concentrate on core competencies and speeding up the development of final applications.

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Documentation

Bluetooth Specifications

- Core
- Profiles
- Link Manager Protocol documentation

Firmware documentation

- HCI Functional Specification
- HCI UART Transport Layer
- Message Sequence Charts
- VHDL Code

Hardware documentation

- Radio and Antenna Board Documentation
- Motherboard Documentation
- Baseband Board Documentation

Comprehensive data sheets

- Baseband Controller
- Bluetooth Module
- Bluetooth Radio Module

Introduction Slides

- Bluetooth Introduction
- Bluetooth Profiles
- Qualification Process
- Radio and Baseband
- Bluetooth Baseband Security Concept
- Bluetooth Protocol Stack
- Ericsson Bluetooth Solutions

EDBK documentation

- Contents
- Documentation Overview
- Getting Started with the EBDK
- Introduction to Antennae
- EBDK Technical Documentation
- EBDK Technical Tutorial
- Ericsson Bluetooth Developers Kit (EBDK) FAQs
- Bluetooth Qualification

Software

Host Software Win32 C++ application with user interface that allows:

- Host stack in executable form (one license for development purposes only)
- Demonstrations of voice/data applications
- Bit-error rate (BER) test software
- Baseband to Baseband connection support software
- Application Wizard for host application development
- Application Wizard Demo
- HCI scripting

Baseband Target Firmware

- Basic test firmware that allows all the interfaces to be tested.
- Ericsson's Link Layer and Host Control Interface firmware that handles the Bluetooth radio packet protocol and provides an inter-face to the controlling host computer.

Hardware

Interfaces

- Radio: 0 dBm board with internal or external antenna connectors.
- Serial Ports: Three RS232 ports with 9-pin 90 degree D-type female connectors.
- Audio: Pin header for a typical handset.
- Universal Serial Bus: One USB female. of 2 C: One 4-way pin connector
- Status LEDs
- General-purpose input/output
- JTAG Debug port for ARM CPU
- On/Off/Reset switch

Application Board Interface

- Application Board connector (20-bit address, 16-bit data, Control, Linear PCM)

Included accessories

- USB cable type A to type B
- Baseband to Baseband cable
- Serial cable (female to female)
- RS232 cable 9 pin, female to female
- RS232 loopback plugs, 3 pcs
- LIC (Lump-In-Cord) Power Cube 90-280 VAC to 12 VDC
- Power Cable Plugs (UK, Australia, USA/Canada, Europe)
- Ericsson Handset and Assembly Kit

Mechanical

Approximate weight: 0.5 Kg
Dimensions (mm):
Motherboard: 297x210,
Baseband board: 80x80,
Radio Module board 60x40.

Ordering Information

The Bluetooth Development Kit from Ericsson Microelectronics may be ordered as: DPY 901 052

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Product Brief

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