



Bluetooth

Wireless Connections Made Easy

The open Bluetooth™ wireless technology is intended to relieve us of cumbersome cables and make adhoc networking possible. The technology was initiated by Ericsson and then developed in collaboration with the world's leading telecom, computing and chip integration companies. In early 1998 they formed the Bluetooth Special Interest Group (SIG) and now more than 1700 companies have signed as adopters of the technology.

The Bluetooth wireless technology is designed for low-cost, low-power and small-size digital electronic devices. On the back of this leaflet you will find a summary of the most important general features found in the royalty-free Bluetooth Specification.

The Bluetooth solution comprises hardware, software and interoperability requirements.

Interoperability

One World, One Version

The Bluetooth vision, that any Bluetooth compliant device can find and interact with any other nearby Bluetooth compliant device, anywhere in the world, is now a fact – as long as they share the same Bluetooth Function.

Usage Models

When creating the technology, the focus was on describing different usage models, scenarios from everyday life where cable replacement will make mobility easy and simplify communication.

Bluetooth Functions (Profiles)

While the usage models describe applications and intended devices, the Profiles specify how to use the Bluetooth protocol stack for an interoperable solution. In each Profile it is stated how to reduce options and set parameters in the protocols, and a common user experience is also defined.

The Profiles are a part the Bluetooth Specification, and all devices must be tested against one or more of the Profiles in order to fulfill the Bluetooth compliance requirements. Profiles will be added as new Bluetooth applications are developed.

Compliance

The Bluetooth Qualification Program guarantees global interoperability between devices regardless of the vendor and regardless of the country in which it is used. During the test procedure that all devices must pass, it is verified that they meet all requirements regarding: radio link quality, lower layer protocols, profiles and information to end-users.

Regulatory and governmental approvals still have to be fulfilled and are not part of the Bluetooth Qualification Program.

