

# BlueConnect+

## Combination Bluetooth/NFC Module

- **Bluetooth V2.1 interface**
- **NFC interface**
- **Simple Pairing software**
- **Multiple profiles available**

### Function

BlueConnect+ is a combination Bluetooth/NFC module supporting both wireless technologies. It is suitable for devices that use a Bluetooth connection for transferring greater amounts of data over greater distances, while utilizing NFC technology for authorization and authentication purposes. Combining these two functions in a single module has significant benefits in terms of size, power consumption, price, and functionality.

The Bluetooth interface allows the use of different profiles of data rates. In addition to steer a data transfer, speech and audio transmission is also possible.

The NFC interface has been designed for the reader/writer, card emulation, and peer-to-peer modes. These features can be selected by software. The software is compatible to NFC forum specifications and the standards for RFID tags and contactless smart cards. A Secure Element can be connected externally.

One of the typical uses of this module is for simple pairing. The unit with which data are to be exchanged is simply held against the BlueConnect+. This causes the two devices to exchange connection data via the NFC interface, automatically initiating a Bluetooth connection, which is then used for transferring larger amounts of data such as images, video, or audio. The connection is terminated by holding the unit against the BlueConnect+ again, by exiting the application, or if the maximum radio distance is exceeded.

Preliminary

BlueConnect+

### Technical specifications

Bluetooth	V 2.1
Bluetooth data transfer rate	Up to 3 Mbps
Bluetooth range	Class 2 (approx. 50 m)
Bluetooth antenna	Optional
NFC	13.56 MHz
NFC data transfer rate	Up to 400 kbps
NFC range	Max. 5 cm
NFC antenna	External
Host interfaces	UART, USB
Secure Element interface	SWP
Operating voltage	3. is a 3 V $\pm$ 5%
Power consumption, Bluetooth active	20 mA
Power consumption, NFC active	60 mA
Power consumption, idle	5 mW
Dimensions	40 x 60 x 5 mm

**“Bluetooth and NFC – driven by Stollmann!”**

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