Bluetooth

Pairing with Your Vehicle

PLEASE WAIT...
Why use a separate modem with SIM as you probably have a smartphone with Bluetooth connection?

A Squarell Bluetooth device can inform the driver through a smartphone with actual information about his truck, trailer and cargo.

The Squarell Bluetooth dongle is a very easy to install SFD (Special Function Device). The Bluetooth dongle can easily overtake the existing connection to an external modem device. The vehicle data you used to receive via RS232 can now easily be sent to your Android or iOS smart phone. There are two types of Bluetooth dongles available. Bluetooth 2.1 for older types of Android phones/tables and Bluetooth 4.0 LE which is used for all IOS devices and all recent Android devices.
When the driver is outside his vehicle, the Bluetooth device can lose connection. The Squarell Bluetooth dongle has an 8Mb buffer to store the vehicle data when the connection with the end device is lost.

The Bluetooth device is part of Squarell's advanced vehicle data solutions and products range. With a configurable functionality and extended connectivity, the Squarell Bluetooth device can be used in various automotive applications such as telematics, fleet management, real-time monitoring, measurement, and control/interfacing.

**How does it work?**

The Bluetooth device is discoverable for 1 minute after power on. The pairing procedure needs to be initiated by the end device (e.g., mobile Android phone). Once the pairing was successful, it is always possible to re-connect with the Bluetooth device. The end application should be able to select the correct Bluetooth device when there are more than one paired Bluetooth devices available to connect to.

Depending on the type of end device it is or is not possible to have multiple Bluetooth connections. In most cases there will be no problem with a Bluetooth car kit in combination with the Squarell Bluetooth device. After pairing the direct messages and the buffered messages are off and must be turned on by the receiving Bluetooth application.
Technical specifications Bluetooth

Dimensions/Weight
Length 55 mm, Width 52 mm, Height 18 mm/95 grams

Cable length
2.5 m

Material
Nylon black 6/6

Environmental sealing
IP67 (tested by manufacturer)

Drop specification
1m to concrete floor

Storage temperature
-40 to 90°C

Operating temperature
-40 to 85°C

Relative humidity
max 90% at 40°C

Supply power
5 Volt DC

Electrical isolated
No

Default baudrate
9600

Default communication
UART

Bluetooth version
2.1

Protocol
RFCOMM

SFD Device ID
ID 690

Bluetooth version
4.0 LE

Protocol
GATT

SFD Device ID
ID 695

Order information

8590-690 Bluetooth 2.1 Device (SFD)
8591-690 Bluetooth 2.1 Device (JAE crimps)

8595-695 Bluetooth 4.0LE Device (SFD)
8596-695 Bluetooth 4.0LE Device (JAE crimps)