



3 Test object Data

3.1 General EUT Description

Equipment under Test	Bluetooth Vehicle Communication Interface
Type Designation:	Blue VCI BT
Kind of Device: (optional)	Device to be connected to the appropriate interface of cars to provide a Bluetooth connection to a diagnostics PC or similar device to communicate with the internal electronics of cars.
Voltage Type:	DC
Voltage level:	12 V

General product description:

Bluetooth is a short-range radio link intended to be a cable replacement between portable and/or fixed electronic devices.

Bluetooth operates in the unlicensed ISM Band at 2.4 GHz. In the US a band of 83.5 MHz width is available. In this band, the Bluetooth technology defines 79 RF channels spaced 1 MHz (2402 - 2480 MHz). The actual RF channel is chosen from a pseudo-random hopping sequence through the 79 channels. A channel is occupied for a defined amount of time slots, with a nominal slot length of 625 μ s. The maximum dwell time on one channel is defined by the packet type and is 0.625 ms for DH1 packets, 1.875 ms for DH3 and 3.125 ms for DH5. The nominal hop rate is 1600 hops/s for DH1, 1600/3 for DH3 and 1600/5 for DH5. All frequencies are equally used. The maximum nominal average time of occupancy is 0.4 s within a period of 79*0.4 seconds.

The EUT provides the following ports:

Ports

Temporary antenna connector
Enclosure
DC Port

The main components of the EUT are listed and described in Chapter 3.2