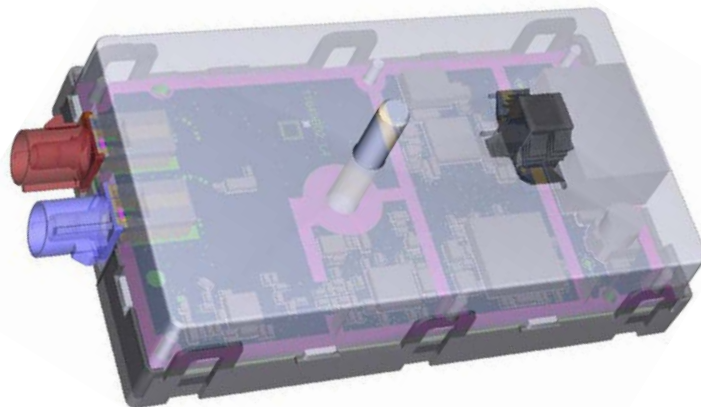


## Bluetooth LE Transceiver

### TRANSCVRP01



**PORSCHE Part Number:**

**9Y0.051.515**

**Kathrein Part Number:**

**50110316**

**Contents**

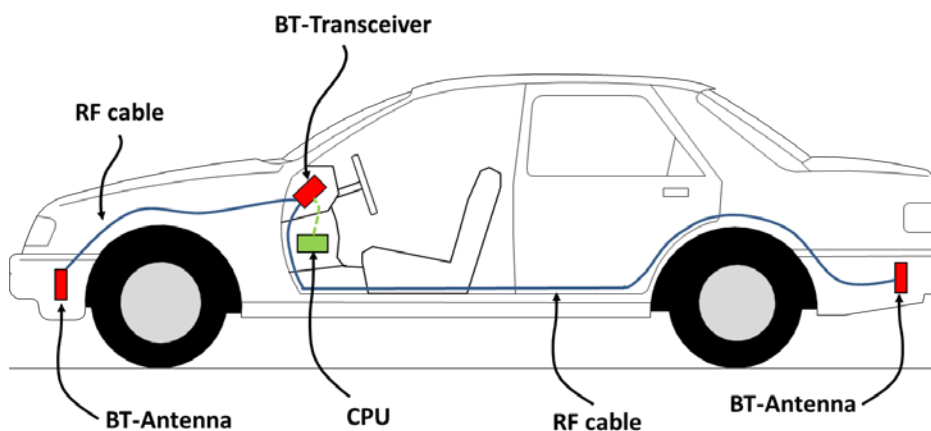
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## 1. Introduction

The TRANSCVRP01 is an automotive ECU with an integrated Bluetooth LE transceiver for special usage. The Bluetooth circuit and electronics are designed to tunnel a not public described data stream via Bluetooth generic protocol. The device rejects any communication requests from Bluetooth devices not supporting the nonpublic payload format. The device is fully integrated to the electronics of the car and is connected with the CAN-Bus of the car to communicate with the rest of the ECUs.

The device will be integrated in the car only by the car-manufacturer or in case of replacement by a professional garage. The end-user does not have to do any installations or adjustments. There will be no aftermarket modules available since the device needs to have a full range of ECUs available to communicate with.

## 2. Installation Options



Example for a principle setup in a car.

The BT-Transceiver is designed for in-car use only. It is designed according the detailed specification of the OEM (car-manufacturer). It **MUST** be well integrated into the automotive environment ( $T_{\text{ambient}}$  max. 85 °C) and needs to be installed by the OEM or in case of replacement by a professional garage. Only the antennas listed at the Antenna Kitting section are allowed to be used along with this BT-Transceiver.

### 3. Antenna Kitting

#### Bluetooth Antenna Options:

Antenna Bluetooth

#### PORSCHE PART No.

9Y0.051.506

### 4. Technical Specifications

#### General Specifications

|                    |                                      |
|--------------------|--------------------------------------|
| Model Number       | TRANSCVRP01                          |
| Antenna Connectors | FAKRA (male) DIN 72594-1/ISO 20860-1 |
| Impedance          | 50 Ohm                               |
| DC Connector       | MQS-Type                             |
| Power Requirements | DC 9 V - 16 V; 100 mA                |

#### Supported Bands

| Band     | Frequency   | Service Supported |
|----------|-------------|-------------------|
|          | [MHz]       |                   |
| ISM-Band | 2402 – 2480 | BTLE              |

#### Output Power

| Output Power | Max. Value | Unit |
|--------------|------------|------|
| Output 1     | -4         | dBm  |
| Output 2     | -4         | dBm  |

Each device is individually tested and factory set to ensure FCC compliance and cannot be adjusted without factory reprogramming or disabling the hardware.

### 5. Safety and Recommendations



**WARNING:** The TRANSCVRP01 is designed for in-car use only. It MUST be well integrated into the automotive environment ( $T_{\text{ambient}}$  max. 85 °C) and needs to be installed by the OEM (car-manufacturer) or in case of replacement by a professional garage.



**WARNING:** Only the antennas listed at the Antenna Kitting section are allowed to be used along with the TRANSCVRP01. The use of other antennas will cause the cease of operating license of the BT-Transceiver.

This device complies with Part 15 of FCC rules. Operation is subject to two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by KATHREIN Automotive could void the authority to operate this equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:*

- (1) This device may not cause interference; and*
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.*