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ISO 9001
ISO 14001
IATF 16949
ISO 13485
ISO 17025

User Manual
BMW KEY-NFC-Writer Production

Inhalt

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1. General description of BMW KEY NFC Writer Production:

The product “BMW Keywriter Production” is a RFID Reader in a shielded enclosure, so it is possible to use several readers in the nearest distance and to read simultaneously.

2. How to use the BMW KEY NFC Writer Production:

2.1 Mechanical installation:

A 19 inch rack slide is prepared with 5 holes (mounting screws, USB plug, ground terminal) The Keywriter is mounted with three 5mm screws. The screws must not be screwed more than 10mm into the housing of the Keywriter.

2.2 Electrical connection:

The Keywriter is connected to a personal Computer using the enclosed USB-A to USB-B cable. An other power supply is not vnecessarry. The ground terminal is connected to the housing of the personal computer. Grounding is not required for safety, but recommended for perfect function.

2.3 Using the BMW KEY NFC Writer Production :

After connecting the BMW KEY NFC Writer Production to a personal computer the BMW KEY NFC Writer Production is set to operative mode. To read a transponder place the transponder in the funnel located on the keywriter. Then it is possible to re

2.4 LEDs:

In the Keywriter two RGB LEDs are built with the colors red, green and blue, which show the state of the Keywriter corresponding to the PC Software.

2.5 Loop antenna:

Inside the keyreader is a loop antenna positioned around the key funnel. If you have problems reading a ransponder please try to turn the transponder 90degrees to improve the coupling.

2.6 shielded enclosure:

A shielded enclosure is necessary, affecting neighbouring Keywriter in the parallel operation of several Keywriter to exclude. This is explained by the basic functioning of passive transponders. Here, a large transmitter field strength of Keywriter is needed because the transponder must be supplied with energy from the field. On the other hand, the relatively small signals of the transponder must be received. If now sends a neighboring Keywriter, while the other receives the signal of the transponder must be considerably greater than that of the neighbouring Keywriter.

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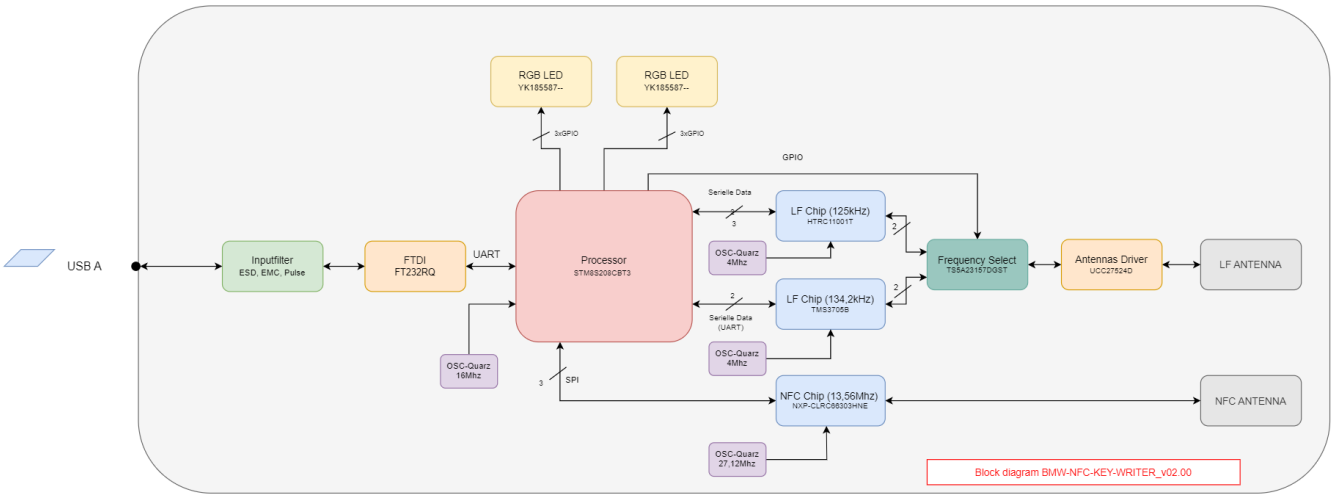
2.7 Blockdiagram:



3. regulatory notices

3.1 FCC requirements NOTICE:

This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions: this device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

3.2 NOTICE:

Changes or modifications made to this equipment not expressly approved by BECOM GmbH may void the FCC authorization to operate this equipment.

3.3 FCC warning statement

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.

3.4 IC Warnings

CAN ICES-003(B)/NMB-003(B):
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.
RSS-Gen & RSS-247 statement:
This device complies with Industry Canada licence-exempt RSS standard(s).
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.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

3.5 National Approval Markings:

Mexico:

IFT: BMBEBM24-10980

NOM NYCE