



User manual

CORTIS08

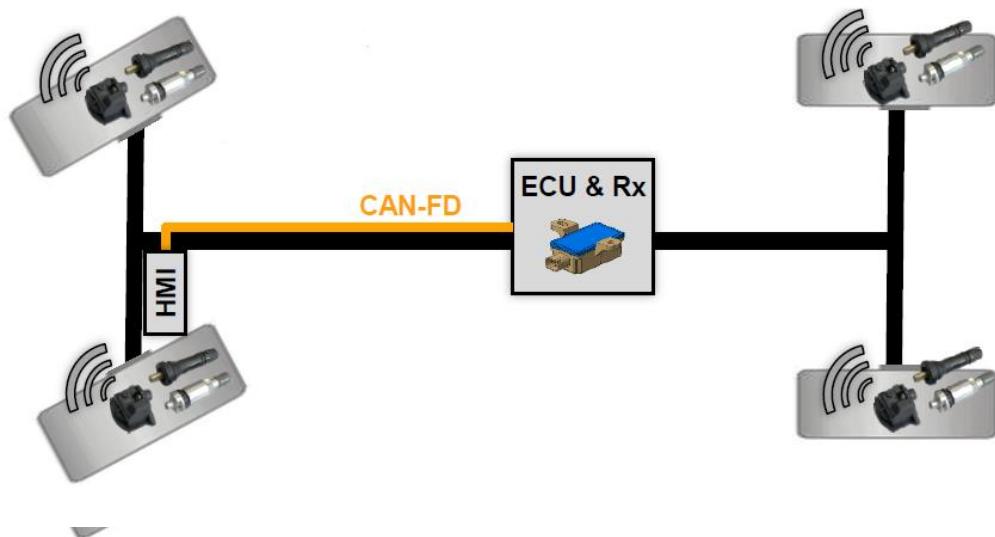
TPMS ECU Receiver

## General Overview

The Tire Guard system monitors the parameters of the car wheels, including pressure, temperature, acceleration and informs the driver in case of parameters variance above certain limits.

The system components of this Tire Guard system are:

- Wheel Units (WU) – located in each car wheel
- Electronic Control Unit (ECU) – located inside of the car (not visible for the passenger)
- Human to Machine Interface (HMI) – not part of Continental project development



The ECU contains the following HW function blocks:

Power Supply VBAT  
 SBC  
 Micro-controller  
 Antenna  
 RF receiver (onboard placement) CAN FD communication interface

Pin No.	Function	Description
X1	V-bat KI30T	Vbat
X2	CAN_Hi	CAN bus
X3	CAN_Lo	CAN bus
X4	Not used	Pin not available
X5	Not used	Pin not available
X6	CAN_Hi out	
X7	CAN_Lo out	
X8	GND connected to	Ground

TPMS Reception Frequency (433 MHz)	
Demodulation	2FSK
Nominal Frequency (f_nom)	433.92MHz ±25 kHz
Frequency Drift	f_nom ±70 kHz
Frequency Shift (Δf)	Typ: 60 kHz Max: 80 kHz
Transmission Rate	19,2 kbit/s ± 5%
Logical Levels	Logical "0": f_nom - Δf / 2 Logical "1": f_nom + Δf / 2



Continental  
Model: CORTIS08  
Product: TPMS ECU Receiver  
FCC: KR5CORTIS08

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

(1)(1) this device may not cause harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.  
No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

#### FCC Class B digital device notice

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 license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1)(1) this device may not cause harmful interference, and (2) this device must accept interference received, 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)(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil d'accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### 根據 LP0002 低功率射頻器材技術規範\_章節 3.8.2

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低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。