

EU DECLARATION OF CONFORMITY (DoC): W-ECU4

- A. Product: **W-ECU4**
- B. Manufacturer: CPAC Systems AB, Box 217, SE-401 23 Gothenburg, SWEDEN
- C. This declaration of conformity is issued under the sole responsibility of the manufacturer
- D. Type: Telematics unit with FDD-LTE/UMTS/GSM and optionally with satellite communication via the Orbcomm system.
- a) Intended use: W-ECU4 is for telematic communication from construction machines within predefined networks (2G/3G/4G and optionally satellite communication via the Orbcomm system).
- b) Essential SW versions (RF properties): 0 (RF properties is solely determined by the communications modules used).
- E. The RF communication of W-ECU4 is provided using RF modules:
- a) For 2G/3G/4G the Cinterion PLS62-W from Gemalto. The module has 2014/53/EU (RED) approval. (For info - also: GCF, CE, FCC, PTCRB, IC, UL approvals, as well as AT&T, Vodafone and more operator approvals). It has the following characteristics:
- i. 3GPP Rel.9 Compliant Protocol Stack
- ii. Twelve Bands FDD-LTE: 700, 800, 850, 900, 1700/2100 (AWS) 1800, 1900, 2100, 2600 MHz
- iii. Seven Bands UMTS (WCDMA/FDD): 800, 850, 900, 1700/2100 (AWS), 1800, 1900, 2100 MHz (bands: 1, 2, 4, 5, 8, 9, 19)
- iv. Quad-Band GSM: 850, 900, 1800, 1900 MHz
- v. IPv4 and IPv6 support
- vi. Module SW Version(s): All released for the module.
- b) For GNSS (GPS/Glonass/Galileo/BeiDou) the receive-only module Telit Jupiter SE868 V3 from Telit. Operating frequency bands: GPS L1, Glonass L1, Galileo E1 and BeiDou B1. The module is 2014/53/EU (RED) approved.
- c) Option: For satellite communication via the Orbcomm system the Q1000 module from Quake Global. The module is 2014/53/EU (RED) approved and has the following characteristics:
- i. Operating frequency band: Rx: 137-138 MHz, TX: 148-150 MHz
- ii. Max radio-frequency power transmitted by unit/module: up to 40 dBm during short bursts (burst communication)
- d) Essential accessories:
- i. Antenna for 2G/3G/4G communication and GNSS satellite signal reception: Hirschmann CGNW 702659 SF S (920-469-xx)
- ii. Option: Antenna for satellite communication (Orbcomm): Hirschmann $\lambda/4$ (920 302-001) or Hirschmann HORB-SX-0114A
- F. The object of the declaration described above is in conformity with the relevant EU harmonization: European Directive 2014/53/EU (RED)
- G. The conformity with the essential requirements set out in Art.3 of the 2014/53/EU has been demonstrated against the following harmonized standards:

Article of Directive 2014/53/EU (RED)	Harmonized Standard reference
3.1 (a): Health and Safety of the User	EN 623 68-1:2014 + Corr.1 2015 /AC:2015 /A11:2017, EN 623 11:2008 LiP battery pack: IEC 62133-2:2017
3.1 (b): Electromagnetic Compatibility	EN 301 489-1 V2.2.3, EN 301 489-19 V2.1.1, EN 301 489-20 V2.1.1, EN 301 489-52 V1.1.0
3.2: Effective use of spectrum allocated	EN 301 511 V12.5.1, EN 301 908-1 V11.1.1, TS 151 010-1 V12.8.0 EN 301 908-2 V11.1.2, EN 301 908-13 V11.1.2, EN 303 413 V1.1.1, EN 301 721 V2.1.1



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- H. The CE conformity assessment procedure referred to in Article 17 and detailed in Annex III, Module B of Directive 2014/53/EU has been followed. Type Examination Certificate (TEC): T818676L-TEC has been issued by the Notified Body (NB) of CTC Advanced (NB number 0682).
 - I. The product can be considered compliant to the essential requirements set out in Art.3 of 2014/53/EU only in combination with the above-mentioned SW version(s).
 - J. The Technical Compliance Folder (TCF) relevant to the product and which supports this Declaration of Conformity, is held by: CPAC Systems AB, Box 217, SE-401 23 Gothenburg, SWEDEN.

Mölnådal, 2020-06-29

Anders Pihl, CTCX, CPAC Systems AB

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