EU Declaration of Conformity & Technical Documentation File

Product: GS-911wifi

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1. Product Identification

- **Product Name:** HEX GS-911wifi G2
- **Variants:** HEX-GS-911wifi OBD, HEX GS-911usb OBD
- **Description:** Industrial Monitoring and Control Device with integrated wireless modem and OBD-II interface.
- **Wireless Technology:** WiFi 2.4GHz
- **Hardware Components:** Dual-PCB architecture (Mainboard + Modem Module), 3-piece molded enclosure, and protective rubber jacket.
- **External view of all variants:**

- **Rating label:** Including **CE Mark**, **WEEE symbol**, device serial number, contact website, and date of manufacture

2. EU Declaration of Conformity (DoC)

This declaration is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

- **2014/53/EU:** Radio Equipment Directive (RED)
- **2011/65/EU & (EU) 2015/863:** RoHS Directive (Restriction of Hazardous Substances)

2.1 Referenced Harmonized Standards

The following standards and technical specifications have been applied to demonstrate conformity:

Radio & Wireless (RED Article 3.2):

- **EN 300 328 V2.2.2:** Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum.

Electromagnetic Compatibility (RED Article 3.1b / EMC):

- **ETSI EN 301 489-1 V2.2.3:** Electromagnetic compatibility and Radio Spectrum Matters (ERM).
- **ETSI EN 301 489-17 V3.2.4:** Specific conditions for Broadband data transmissions systems.

Safety & Health (RED Article 3.1a):

- **IEC 62368-1: 2014 / EN 62368-1:2014 + A11: 2017:** Audio/video, information and communication technology equipment - Part 1: Safety requirements.

Environmental (RoHS):

- **EN IEC 63000:2018:** Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

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3. Product Construction & Modular Architecture

This device utilizes a modular design to maintain high quality and traceability.

3.1 Sub-Assembly Breakdown

- **Main PCB Assembly:** 87 components (HTS 8543.90) - HEXR-350
- **Modem Module PCB:** 20 components; pre-certified wireless module - HEXW-301

- **Enclosure System:** 3-piece custom molded plastic with light guides and 4 x fixing screws
- **Protective Layer:** Removable rubberized jacket for industrial durability.

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4. Compliance Assessment Evidence Index (Level 3)

Detailed technical data and test reports are archived in the Appendices of this file.

Module / Part	Risk Level	Evidence Provided	Report/Ref Number
Complete Device	High	iSERT EMC Test Report EN 18031 Technical Documentation	TRE02262/23 HEX_GS-911_EN18031_TechnicalDoc.v1.3
Main PCB	High	Sub-assembly Level 3 RoHS	HEXR-350_DoC&FMD&reports_PurePCB-Barracuda_2026-03-13.pdf
Modem PCB	High	Sub-assembly Level 3 RoHS	HEXW-301_LAB_RoHS-SubMaterial-Reports.zip
Molded Enclosure	Medium	TÜV RoHS Lab Report	48226822d5 001
Rubber Jacket	High	SGS RoHS Lab Report	CANEC25019844111
OBD-II Header	Medium	SGS Lab Report (Full RoHS Analysis)	RT1962-A2001_LAB_SGS-ETP26400030_2026-05-08.pdf

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5. Applied RoHS Exemptions

The following exemptions are currently utilized for this device's specialized industrial components:

- **Exemption 7(c)-I:** Lead in glass or ceramic (for SMD electronic components).

Refer to Appendix F for a detailed analysis.

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6. Authorized Signature

I hereby declare that the equipment named above has been designed and manufactured to comply with the relevant sections of the above-referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

Signed on behalf of: HEX Innovate UK Limited

Location: Stellenbosch, South Africa

Date: May 15, 2026

Signature: 

Name: Francois Barnard

Title: Chief Operating Officer

Appendices (Full Evidence Archive)

- **Appendix A: RED & EMC Evidence**
- **Appendix B: IEC 62368-1 Safety & LVD Evidence**
- **Appendix C: RoHS Level 3 Analytical Evidence**
    - **C.1:** Bare PCB & Solder Paste Lab Reports
    - **C.2:** Connectors (USB, MicroSD, Pin Headers, OBD-II) Lab Reports
    - **C.3:** Electromechanical Components
    - **C.4:** Crystal Oscillator
    - **C.5:** Enclosure System
    - **C.6:** USB Cable Assembly
- **Appendix D: RoHS Level 1 & 2 Supplier Evidence**
    - **D.1:** Supplier Declarations (DoCs) for Low/Medium Risk components (ICs, Resistors, etc.)
    - **D.2:** Full Material Declarations (FMDs) for ICs and Semiconductors
    - **D.3:** Accessories
    - **D.4:** Low-Risk Discrete Semiconductors
    - **D.5:** Low-Risk Passives (Capacitors, Resistors, Ferrite Beads)
- **Appendix E: Itemized BOM Evidence Map** (The Master Spreadsheet)
- **Appendix F: RoHS Annex III Exemptions Considered**

STATEMENT OF TECHNICAL DOCUMENTATION AVAILABILITY

In accordance with EN IEC 63000:2018 and the Radio Equipment Directive (2014/53/EU), the complete Technical Documentation File (Document Ref: CE-RED-RoHS-2026-001) containing proprietary manufacturing data, Full Material Declarations (FMDs), and analytical laboratory reports is held securely by Hex Innovate (UK) Ltd.

To protect intellectual property, these detailed appendices are not distributed to third-party logistics providers. The full unredacted Technical File will be made available directly to European Customs and Market Surveillance Authorities within 48 hours of a formal request.