


| | | | | |
|---|---|--------------|--------------------|--------------------|
|  | Digital Matter Embedded South Africa | | Doc No: | DM/CMP/DoC/H4P/001 |
| | EU Declaration of Conformity | | Date Created: | 25/11/2022 |
| | | | Date Modified: | 11/03/2024 |
| | | | Rev No: | 02 |
| Creator: | Lizette Viljoen | Approved By: | Technical Director | |

We, Digital Matter Embedded South Africa, St Georges building, cnr Meadowbrook and Sloane Rd, Bryanston, South Africa, 2021


declare on 25/11/2022

under our sole responsibility that the product:

- **HAWK-4G-PCB**

is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU and Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS 2) Directive 2011/65/EU and its amendment Directive 2015/863/EU (RoHS 3).

| Technical Specifications | Product Code |
|-----------------------------------|--|
| | HAWK-4G-PCB |
| Cellular Modem: | Nordic nRF9160-SICA-B1 |
| Cellular Modem Bands and Power | 4G Bands: CAT-M1 & CAT-NB1 bands <ul style="list-style-type: none"> - 1 FDD 2100 - 2 FDD 1900 - 3 FDD 1800 - 4 FDD 1700 - 5 FDD 850 - 8 FDD 900 - 12 FDD 700 - 13 FDD 700 - 17 FDD 700 - 19 FDD 850 - 20 FDD 800 - 25 FDD 1900 - 26 FDD 800 - 28 FDD 700 - 66 FDD 1700 CAT-M1 specific <ul style="list-style-type: none"> - 18 FDD 850 |
| Cellular Modem Operating Mode: | CAT-M1 & CAT-NB1 |
| Maximum Cellular Output power | Up to 23dBm |
| Modulation | CAT-M1 & NB-IOT: OFDMA CAT-M1: 16 QAM |
| Bandwidth | CAT-M1: 1.4MHz NB-IOT: 200kHz |
| GNSS Receiver: | Nordic nRF9160-SICA-B1 |
| GNSS Bands: | GPS |
| Power Supply: | Input Voltage: 6-28 V DC |
| Firmware | V1.0 |
| Clarification of module function: | GNSS provided by nRF9160-SICA-B1 Cellular communication provided by nRF9160-SICA-B1 |

| | | | | |
|---|---|--------------|--------------------|--------------------|
|  | Digital Matter Embedded South Africa | | Doc No: | DM/CMP/DoC/H4P/001 |
| | EU Declaration of Conformity | | Date Created: | 25/11/2022 |
| | | | Date Modified: | 11/03/2024 |
| | | | Rev No: | 02 |
| Creator: | Lizette Viljoen | Approved By: | Technical Director | |

| Essential Requirements – Radio Equipment Directive 2014/53/EU | |
|---|---|
| Health and Safety (Article 3.1a) | EN/ IEC 62368-1:2020+A11:2020 EN 62311:2020 |
| EMC (Article 3.1b) | EN 301 489-1: V2.2.3 EN 301 489-19: V2.2.1 EN 301 489-52: V1.2.1 EN 55032:2015/A1:2020 EN 55035:2017/A11:2020 |
| Radio Spectrum Efficiency (Article 3.2) | EN 303 413: V1.2.1 EN 301 908-1: V15.2.1 EN 301 908-13: V13.2.1 |
| Essential Requirements (RoHS) Prevention Article 4.1 | RoHS 2 Directive 2011/65/EU with amendment (RoHS 3) EU Directive 2015/863/EU |
| Article 10(10) and 10(2) | No restrictions on use in any EU member states. |

The conformity assessment procedure referred in Article 17 and detailed in Annex III of the Directive 2014/53/EU has been followed and all technical documentation relevant to the above equipment will be held at:

*Digital Matter,
The Oval, St Georges Block,
Meadowbrook Street, Cnr Sloane Street,
Bryanston, 2021,
South Africa.
www.digitalmatter.com
Tel: +27 11 540 9260*



Adrian Pickles
Technical Director

11/03/2024

Date Signed