	<b>Digital Matter Embedded South Africa</b>		Doc No:	DM/CMP/DoC/O3B/001
	<b>EU Declaration of Conformity</b>		Date Created:	15/05/2023
			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 15/05/2023

under our sole responsibility that the product:

- **Oyster3-4G-BLE**

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
	Oyster3-4G-BLE
Cellular Modem:	Nordic nRF9160-SICA-B1
Cellular Modem Bands and Power	<b>4G Bands:</b> <b>CAT-M1 &amp; CAT-NB1 bands</b> <ul style="list-style-type: none"> <li>- 1 FDD 2100 MHz</li> <li>- 2 FDD 1900 MHz</li> <li>- 3 FDD 1800 MHz</li> <li>- 4 FDD 1700 MHz</li> <li>- 5 FDD 850 MHz</li> <li>- 8 FDD 900 MHz</li> <li>- 12 FDD 700 MHz</li> <li>- 13 FDD 700 MHz</li> <li>- 17 FDD 700 MHz</li> <li>- 19 FDD 850 MHz</li> <li>- 20 FDD 800 MHz</li> <li>- 25 FDD 1900 MHz</li> <li>- 26 FDD 800 MHz</li> <li>- 28 FDD 700 MHz</li> <li>- 66 FDD 1700 MHz</li> </ul> <b>CAT-M1 specific</b> <ul style="list-style-type: none"> <li>- 18 FDD 850 MHz</li> </ul>
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:	Sony CXD5612AGF
GNSS Bands:	GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS
Bluetooth Module	BGM220PC22WGA2
Power Supply:	Input Voltage: 3-5.5 V DC
Firmware	V1.0
Clarification of module function:	GNSS provided by Sony CXD5612AGF Cellular communication provided by nRF9160-SICA-B1 Bluetooth Scanning is provided by the SiLabs BGM220PC22WGA2

	<b>Digital Matter Embedded South Africa</b>		Doc No:	DM/CMP/DoC/O3B/001
	<b>EU Declaration of Conformity</b>		Date Created:	15/05/2023
			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 62479:2010 EN 62311:2020
EMC (Article 3.1b)	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.6 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 300 328: V2.2.2 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 Embedded South Africa,  
The Oval, St Georges Block,  
Meadowbrook Street, Cnr Sloane Street,  
Bryanston, 2021,  
South Africa.  
[www.digitalmatter.com](http://www.digitalmatter.com)  
Tel: +27 11 540 9260*



Adrian Pickles  
Technical Director

11/03/2024

Date Signed