	<b>Digital Matter Embedded South Africa</b>		Doc No:	DM/CMP/DoC/O3G/001
	<b>EU Declaration of Conformity</b>		Date Created:	27/02/2024
			Date Modified:	11/03/2024
			Rev No:	01
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 27/02/2024

under our sole responsibility that the product:

- **Oyster3-Global**

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-Global
Cellular Modem:	Ublox LENA R8
Cellular Modem Bands and Power	<u>4G Bands:</u> CAT-1bis <ul style="list-style-type: none"> <li>- 1 FDD 2100</li> <li>- 2 FDD 1900</li> <li>- 3 FDD 1800</li> <li>- 4 FDD 1700</li> <li>- 5 FDD 850</li> <li>- 7 FDD 2600</li> <li>- 8 FDD 900</li> <li>- 12 FDD 700</li> <li>- 20 FDD 800</li> <li>- 28 FDD 700</li> <li>- 66 FDD 1700</li> <li>- 38 TDD 2300</li> <li>- 40 TDD 2600</li> <li>- 41 TDD 2600</li> </ul> <u>2G Bands:</u> GSM/GPRS bands <ul style="list-style-type: none"> <li>- GSM 850</li> <li>- GSM 900</li> <li>- DCS 1800</li> <li>- PCS 1900</li> </ul>
Cellular Modem Operating Mode:	LTE CAT 1bis & 2G cellular
Maximum Cellular Output power	LTE: Power Class <ul style="list-style-type: none"> <li>• Class 3 (23 dBm)</li> </ul> 2G: GSM/GPRS (GMSK) Power Class <ul style="list-style-type: none"> <li>• Class 4 (33 dBm) for low bands</li> <li>• Class 1 (30 dBm) for high bands</li> </ul>
Modulation	LTE CAT 1bis: QPSK 2G: GMSK
Bandwidth	CAT-1bis: 1.4MHz / 5MHz / 20MHz 2G: 200kHz
GNSS Receiver:	Ublox LENA-R8001M10
GNSS Bands:	GPS, GLONASS, Galileo, BeiDou, QZSS
Power Supply:	Input voltage: 3.3-5.5 V DC
Firmware	V1.0
Clarification of module function:	GNSS provided by Ublox LENA-R8001M10 Cellular communication provided by Ublox LENA R8 Modem

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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 301 511: V12.5.1 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:

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[www.digitalmatter.com](http://www.digitalmatter.com)  
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Adrian Pickles  
Technical Director

11/03/2024

Date Signed