	Digital Matter Embedded South Africa		Doc No:	DM/CMP/DoC/O3G/002
	UK Declaration of Conformity		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 - 1 FDD 2100 - 2 FDD 1900 - 3 FDD 1800 - 4 FDD 1700 - 5 FDD 850 - 7 FDD 2600 - 8 FDD 900 - 12 FDD 700 - 20 FDD 800 - 28 FDD 700 - 66 FDD 1700 - 38 TDD 2300 - 40 TDD 2600 - 41 TDD 2600 <u>2G Bands:</u> GSM/GPRS bands - GSM 850 - GSM 900 - DCS 1800 - PCS 1900
Cellular Modem Operating Mode:	LTE CAT 1bis & 2G cellular
Maximum Cellular Output power	LTE: Power Class • Class 3 (23 dBm) 2G: GSM/GPRS (GMSK) Power Class • Class 4 (33 dBm) for low bands • Class 1 (30 dBm) for high bands
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	EN/ IEC 62368-1:2020+A11:2020 EN 62311:2020
EMC	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	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
RoHS	RoHS 2 Directive 2011/65/EU with amendment (RoHS 3) EU Directive 2015/863/EU

All technical documentation relevant to the above equipment will be held at:

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The Oval, St Georges Block,
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Bryanston, 2021,
South Africa.
www.digitalmatter.com
Tel: +27 11 540 9260*



Adrian Pickles
Technical Director

11/03/2024

Date Signed