	<b>Digital Matter Embedded South Africa</b>		Doc No:	DM/CMP/DoC/OYE/002
	<b>UK Declaration of Conformity</b>		Date Created:	16/11/2021
			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 16/11/2021

under our sole responsibility that the product:

- **Oyster-Edge-4G**

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
	Oyster-Edge-4G
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</li> <li>- 2 FDD 1900</li> <li>- 3 FDD 1800</li> <li>- 4 FDD 1700</li> <li>- 5 FDD 850</li> <li>- 8 FDD 900</li> <li>- 12 FDD 700</li> <li>- 13 FDD 700</li> <li>- 17 FDD 700</li> <li>- 19 FDD 850</li> <li>- 20 FDD 800</li> <li>- 25 FDD 1900</li> <li>- 26 FDD 800</li> <li>- 28 FDD 700</li> <li>- 66 FDD 1700</li> </ul> <b>CAT-M1 specific</b> <ul style="list-style-type: none"> <li>- 18 FDD 850</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:	Semtec LR1110
GNSS Bands:	GPS & Beidou
WiFi Receiver:	Semtec LR1110
Power Supply:	Input Voltage: 3.3-5.5 V DC
Firmware	V1.0
Clarification of module function:	Passive GNSS provided by LR1110 and server-side lookup Passive WiFi provided by LR1110 and server-side lookup Cellular communication provided by nRF9160-SICA-B1

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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 301 489-17: V2.3.6 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	EN 300 328: V2.2.2 EN 303 413: V1.2.1 EN 300 440: V2.1.1 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:

*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