	Digital Matter Embedded South Africa		Doc No:	DM/CMP/DoC/O3B/002
	UKCA Declaration of Conformity		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	4G Bands: CAT-M1 & CAT-NB1 bands <ul style="list-style-type: none"> - 1 FDD 2100 MHz - 2 FDD 1900 MHz - 3 FDD 1800 MHz - 4 FDD 1700 MHz - 5 FDD 850 MHz - 8 FDD 900 MHz - 12 FDD 700 MHz - 13 FDD 700 MHz - 17 FDD 700 MHz - 19 FDD 850 MHz - 20 FDD 800 MHz - 25 FDD 1900 MHz - 26 FDD 800 MHz - 28 FDD 700 MHz - 66 FDD 1700 MHz CAT-M1 specific <ul style="list-style-type: none"> - 18 FDD 850 MHz
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
Bluetooth Module	BGM220PC22WGA2
Power Supply:	Input Voltage: 3.3-5.5 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

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Essential Requirements – Radio Equipment Regulations 2017	
Health and Safety	EN/ IEC 62368-1:2020+A11:2020 EN 62479:2010 EN 62311:2020
EMC	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	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
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
Tel: +27 11 540 9260*



Adrian Pickles
Technical Director

11/03/2024

Date Signed