	<b>Digital Matter Embedded South Africa</b>		Doc No:	DM/CMP/DoC/BE4/002
	<b>UK Declaration of Conformity</b>		Date Created:	25/10/2023
			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 25/10/2023

under our sole responsibility that the product:

- **Barra-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
	Barra-Edge-4G
Cellular Modem:	Nordic nRF9160-SICA-B1
Cellular Modem Bands and Power	<b>4G Bands:</b> CAT-M1 & CAT-NB1 bands - 1 FDD 2100 - 2 FDD 1900 - 3 FDD 1800 - 4 FDD 1700 - 5 FDD 850 - 8 FDD 900 - 12 FDD 700 - 13 FDD 700 - 17 FDD 700 - 19 FDD 850 - 20 FDD 800 - 25 FDD 1900 - 26 FDD 800 - 28 FDD 700 - 66 FDD 1700 CAT-M1 specific - 18 FDD 850
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:	Semtech LR1110
GNSS Bands:	GPS & BeiDou
WiFi Receiver:	Semtech LR1110
Power Supply:	Input Voltage: 2.2-3.6 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 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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[www.digitalmatter.com](http://www.digitalmatter.com)  
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Adrian Pickles  
Technical Director

11/03/2024

Date Signed