	Digital Matter Embedded South Africa		Doc No:	DM/CMP/DoC/BCNB/002
	UK Declaration of Conformity		Date Created:	02/07/2024
			Date Modified:	02/07/2024
			Rev No:	00
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 02/07/2024

under our sole responsibility that the product:

- **Barra-Core-NB**

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-Core-NB
Cellular Modem:	Quectel BC660K-GL
Cellular Modem Bands and Power	4G Bands: CAT-NB2 bands <ul style="list-style-type: none"> - 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 - 18 FDD 850 - 19 FDD 850 - 20 FDD 800 - 25 FDD 1900 - 26 FDD 800 - 28 FDD 700 - 66 FDD 1700 - 70 FDD 1700 - 85 FDD 700
Cellular Modem Operating Mode:	CAT-NB2
Maximum Cellular Output power	Up to 23dBm
Modulation	NB-IOT: 15 kHz
WiFi Receiver:	Semtech LR1110
Power Supply:	Input Voltage: 2.2-3.6 V DC
Firmware	V1.0
Clarification of module function:	Passive WiFi provided by LR1110 and server-side lookup Cellular communication provided by Quectel BC660K-GL

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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 301 489-52: V1.2.1 EN 55032:2015/A1:2020 EN 55035:2017/A11:2020
Radio Spectrum Efficiency	EN 300 328: V2.2.2 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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Bryanston, 2021,
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Adrian Pickles
Technical Director

02/07/2024

Date Signed