

Digital Matter Embedded South Africa		Doc No:	DM/CMP/DoC/BE4/001
EU Declaration of Conformity		Date Created:	25/10/2023
		Date Modified:	11/03/2024
		Rev No:	02
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).

Tackwinel Cunnifications	Product Code		
Technical Specifications	Barra-Edge-4G		
Cellular Modem:	Nordic nRF9160-SICA-B1		
Cellular Modem Bands and Power	## AGB Bands:  CAT-M1 & CAT-NB1 bands  - 1		
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		

Document Type: DoC	Authorized By: Technical Director	Page 1 of 2



## **EU Declaration of Conformity**

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Creator: Lizette Viljoen Approved By:

**Technical Director** 

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Essential Requirements – Radio Equipment Directive 2014/53/EU				
Health and Safety (Article 3.1a)	EN/ IEC 62368-1:2020+A11:2020 EN 62311:2020			
EMC (Article 3.1b)	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 (Article 3.2)	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			
Essential Requirements (RoHS) Prevention Article 4.1	RoHS 2 Directive 2011/65/EU with amendment (RoHS 3) EU Directive 2015/863/EU			
Article 10(10) and 10(2)	No restrictions on use in any EU member states.			

The conformity assessment procedure referred in Article 17 and detailed in Annex III of the Directive 2014/53/EU has been followed and 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

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Adrian Pickles	
Technical Director	

11/03/2024

**Date Signed**