

DECLARATION OF CONFORMITY

Manufacturer Mix Telematics International (Pty) Ltd
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Stellenbosch
South Africa

MiX 4000 MK3 Product Series

Model Number	Product	Part Number	Product Version	BAT	Modem	Magix	PCB SA	PCB Version				
	ELECTRONIC UNIT / KIT			BATTERY 3.2V Li-Ion	Quectel SERIES	SHORT RANGE DEVICE	PCB SUB-ASSEMBLY					
MiX 4401	Electronic Unit	U0071MT	3	N/A	BG96	434MHz 915MHz	Z0053MT	1E				
	Kit	U0072MT	2									
MiX 4401-B	Electronic Unit	U0073MT	3	BAT								
	Kit	U0074MT	2									

Technical Description

The MiX 4000 series is a range of fleet products that incorporates the latest market trends. It consists mainly of an on-board computer, a modem, a GNSS, an accelerometer, Low Energy Bluetooth, I/O, 2 x CAN, 2 x RS232, 4 x positive drives, and an optional 434 / 915 MHz short range transceiver.

The components are also the same apart from:

- The "-B" variants have an internal backup battery plugged in, allowing the device to work after the disconnection of the vehicle's battery. The functionality and purposes of the products are the same.

Application of Council Directives

2014/53/EU, Radio Equipment Directive
2004/108/EC, Electromagnetic Compatibility
2011/65/EU and 2015/863/EU, Restriction of Hazardous Substances

We hereby declare that the object of declaration as defined above is in conformity with the essential requirements of the Radio Equipment Directive 2014/54/EU, apart from Art 3.3 d)e)f).

The following standards and normative documents have been applied:

Type	Directive	Standards Applied	Tested At	Date Completed	Test Report name
European Union e-type approval	UN ECE Regulation 10.06: 2019 10R06/00 11185 01	ECE Regulation testing (Emissions and immunity only) covering 3 modes of operation (see below) on an "Non-Immunity" related product: Narrowband emissions - Para 6.5 and 6.6 Emissions of Sub-Assemblies to Transient Disturbances conducted along supply lines - Para 6.7 Transient Immunity - Para 6.9 CISPR 25: second edition 2002 and corrigendum 2004 ISO 7637-2: 2004	TUV UK	7-Apr-22 30-Oct-23	Document 75951936-17 Issue 02 Document 75951936-17 Issue 03
		DIN EN 55032: 2015 A1: 2020, CISPR 55016-2-3:2017 Conducted Emissions at mains power ports	TUV UK	7-Apr-22	Document 75951936-06 Issue 02
European Union Radio Equipment Directive (RED) 2014/53/EU	Directive 2013/35/EU Article 3.1a: Electrical Safety	EN 50665 Human RF Exposure Assessment referencing EN62311 covering all transmitters and including simultaneous transmission assessment. Also covering FCC CFR Part2.1091	TUV UK	17-Jan-22 16-Oct-23	Document 75951936-21 Issue 02 Document 75951936-22 Issue 01 Document 75951936-22 Issue 03
		IEC 62368-1: 2020+A11:2020 Electrical Safety	EMC Technologies (AU)	04-May-22	M2103026 V2 SAF 62368-1
				04-May-22	M2103029 V2 SAF 62368-1
European Union Radio Equipment Directive (RED) 2014/53/EU	Article 3.1b: EMC	ETSI EN 301 489-1: V2.2.3 (2019-11) EMC for Radio Equipment and Services	TUV UK	23-Jan-23	Document 75951936-14 Issue 01 Document 75951936-01 Issue 02
		ETSI EN 301 489-3: V2.1.2 (2021-03) Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	TUV UK	23-Jan-23	Document 75951936-14 Issue 01 Document 75951936-01 Issue 02
		ETSI EN 301 489-17: Draft V3.2.4 (2020-09) Broadband Data Transmission	TUV UK	23-Jan-23	Document 75951936-14 Issue 01 Document 75951936-01 Issue 02
		ETSI EN 301 489-19: V2.2.0 (2020-12) GNSS Receivers	TUV UK	23-Jan-23	Document 75951936-14 Issue 01 Document 75951936-01 Issue 02
		ETSI EN 301 489-52: V1.2.1 (2021-11) Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	TUV UK	23-Jan-23	Document 75951936-01 Issue 02

	Article 3.2 Radio	ETSI EN 301 908-1: V13.1.1 (2019-11) covering LTE CAT M1 FDD Bands B1, B3, B5, B7, B8, B20 and B28. 4.2.2 Radiated Emissions (UE)	TUV UK	7-Apr-22 20-Nov-2023	Document 75951936-02 Issue 01 Document 75953915-08 Issue 01 TRR02406-1-23 (MiX Telematics - MiX4412-B LTE)
		ETSI EN 301 511: V12.5.1 (2017-03) Radiated Spurious Emissions in allocated GSM 900 and DCS 1800 bands, including voltage extremes of the DC supply (Related ETSI TS 151 010-1: V13.11.0 (2020-02))	TUV UK	7-Apr-22	Document 75951936-03 Issue 01 Document 75953915-09 Issue 01
		ETSI EN 303 413: V1.1.1 (2017-06) GSM Harmonized EN for GNNS stations in the GSM 900 and DCS 1800 bands	TUV UK	27-Jan-22 26-Jan-22	Document 75951936-04 Issue 02 Document 75951936-19 Issue 02
		ETSI EN 300 220-2: V3.1.1 (2017-02) Effective Radiated Power and RF Emissions	TUV UK	20-Jan-22	Document 75951936-20 Issue 01
		ETSI EN 300 328 : V2.2.2 (2019-07) Bluetooth Spurious Emissions	TUV UK	05-May-22	Document 75951936-09 Issue 01 Document 75953915-05 Issue 01

Signed at Stellenbosch, South Africa, on Wednesday, 14 May 2025

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