





UK – TYPE EXAMINATION CERTIFICATE RADIO EQUIPMENT REGULATIONS 2017 (SI 2017/1206) Schedule 3 Module B

MANUFACTURER

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PRODUCT DESCRIPTION

Trademark/Trade Name :	ZYXEL
Model Number :	NR7101
Product Description :	5G NR Outdoor Router

APPROVED BODY

Certificate issued by	Approved Body	1177, TIMCO Engine	ering, In	c.
Certificate number	U1177-211044			
Name and Signature	Bruno Clavier	Bruno Clavier	Date:	January 4, 2022

The device shall be marked as follows:



Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as appointed Approved Body, has issued this UK-Type Examination Certificate in accordance with Schedule 3, Module B. The product described appears to be in conformity with the essential requirements Regulation 6.1(a), 6.1(b), and 6.2 of RER 2017 (SI 2017/1206). This certificate relates only to the documents as provided to Timco Engineering, Inc. and is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Approved Body or (2) the date of modifications to the approved type that may affect the conformity of the apparatus with the essential requirements of SI 2017/1206 or the conditions for validity of that certificate, whichever comes first.

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UK – TYPE EXAMINATION CERTIFICATE U1177-211044

Date: January 4, 2022

PRODUCT SPECIFICATIONS

Intended Use / Category		LTE
RF output power		LTE Band 1: 23.40 dBm, Conducted
		LTE Band 3: 23.40 dBm, Conducted
		LTE Band 7: 23.55 dBm, Conducted
		LTE Band 8: 23.89 dBm, Conducted
		LTE Band 20: 23.96 dBm, Conducted
	S	LTE Band 28: 23.71 dBm, Conducted
	S	LTE Band 32: NA
		LTE Band 34: 23.64 dBm, Conducted
		LTE Band 38: 23.78 dBm, Conducted
		LTE Band 40: 23.86 dBm, Conducted
		LTE Band 42: 24.85 dBm, Conducted
		LTE Band 43: 23.64 dBm, Conducted
Frequency range (MHz)		LTE Band 1: 1920 MHz - 1980 MHz
		LTE Band 3: 1710 MHz - 1785 MHz
		LTE Band 7: 2500 MHz - 2570 MHz
		LTE Band 8: 880 MHz - 915 MHz
		LTE Band 20: 832 MHz - 862 MHz
		LTE Band 28: 703 MHz - 748 MHz
		LTE Band 32: 1452 MHz - 1496 MHz (support DL CA only)
		LTE Band 34: 2010 MHz - 2025 MHz
		LTE Band 38: 2570 MHz - 2620 MHz
		LTE Band 40: 2300 MHz - 2400 MHz
		LTE Band 42: 3400 MHz - 3600 MHz
		LTE Band 43: 3600 MHz – 3800 MHz
Modulation		QPSK, 16QAM, 64QAM, 256QAM (Uplink)
		QPSK, 16QAM, 64QAM, 256QAM (Downlink)
Antenna type		Panel UFL

Intended Use / Category	×	WCDMA
RF output power		WCDMA Band I: 22.73dBm, Conducted
		WCDMA Band III: 22.74dBm, Conducted
		WCDMA Band VIII: 22.74dBm, Conducted
Frequency range (MHz)	S	WCDMA Band I: 1920 MHz - 1980 MHz
	×	WCDMA Band III: 1710 MHz - 1785 MHz
	¥.	WCDMA Band VIII: 880 MHz - 915 MHz
Modulation	Y	BPSK, QPSK
Antenna type	¥.	Panel UFL

Intended Use / Category	Š	5G NR
RF output power		n41: 26.08dBm, Conducted
	S	n77: 25.97dBm, Conducted
	Š	n78: 26.18dBm, Conducted
Frequency range (MHz)		n41: 2496 MHz - 2690 MHz
	S	n77: 3300 MHz - 4200 MHz
	Š	n78: 3300 MHz - 3800 MHz
Modulation		QPSK, 16QAM, 64QAM, 256QAM (Uplink)
	S	QPSK, 16QAM, 64QAM, 256QAM (Downlink)
Antenna type		Panel UFL

Intended Use / Category	×.	IEEE 802.11 b/g/n
RF output power		19.35 dBm EIRP
Frequency range (MHz)		2412-2472MHz
Modulation	35	DSSS-DBPSK, DQPSK, CCK
		BPSK, QPSK, 16QAM, 64QAM
Antenna type	35	Printed

Intended Use / Category	%	GNXX
RF output power		NA
Frequency range (MHz)		BDS B1I 1559 - 1610
		Galileo E1 1559 - 1610
		Galileo E5a 1164 - 1215
	S	Galileo E5b 1164 - 1215
	S	GLONASS G1 1559 - 1610
		GPS L1 1559 - 1610
	Š	GPS L5 1164 - 1215
Modulation		BPSK
Antenna type		Dipole

According to the Technical Documentation compiled by the Manufacturer, the following standards were used:

ESSENTIAL REQUIREMENTS

ESSENTIAL REQUIREME	
Essential Requirement	Standard Number & Version
Radio (Regulation 6.2) :	EN 301 908-1 V13.1.1
	EN 301 908-2 V13.1.1
	EN 301 908-13 V13.1.1
	Draft EN 301 908-25 V15.1.1 15.0.2
	EN 300 328 V2.2.2
	EN 303 413 V1.1.1
EMC (Regulation 6.1b) :	EN 301 489-1 V 2.2.3
	EN 301 489-17 V3.2.4
	EN 301 489-19 V2.1.1
	Draft EN 301 489-52 V1.1.2
Health (Regulation 6.1a) :	EN IEC 62311:2020
	EN 50665:2017
	EN 50385:2017
Safety (Regulation 6.1a) :	EN 62368-1:2014
	EN 62368-1:2014/AC:2015
	EN 62368-1: 2014+A11:2017
	EN 60950-22:2017

Item		Exhibit Description							
1,	Copy of the Declaration of Conformity (Draft is acceptable)								
2.	Regulation 14: Pictogram exhibit explaining compliance with Regul								
3.	Operational Description and Circu			V					
4.	External Photos of the device								
5.	Internal Photos of the device								
6.	User manual and information and installation instructions								
7,	Schematic drawings								
8.	Block Diagrams								
9.	Risk Assessment. RER Schedule 3 module B - Analysis and assessment of the risk(s) (See TGN 30 for guidance)								
10.	If Applicable: Modification/Standard Update/Applicant or Manufacturer info change letter explaining the changes to the existing version of the product along with supporting exhibits (e.g., photos, schematics, new applicant details, etc.) Applicable for Product Modifications, Applicant Name Change, Add Model, and Standard Update.								
11.	If Applicable: Previous Copy of the EU/UK-type examination certificate and annexes as delivered by other notified bodies involved in the conformity assessment (e.g., original certificates in case of product modifications, modules certificates, etc.) Where applicable.								
12.	Test Reports			V					
	Radio / EMC / Health / Safety	Test Report Number	Issue Date/ Rev. No						
	Radio	EM052601-01AA	Jul. 09, 2021 / 02						
	Radio	EM052601NR	Oct. 15, 2020 / 02						
	Radio	ER052601AC	Sep. 17, 2020 / 01						
	Radio	ER052601-01AK	Mar. 26, 2021 / 01						
	Radio (module)	2004RSU0055-E1	Jul. 23, 2020 / 01						
	Radio (module)	2004RSU0055-E2	Aug. 05, 2020 / 02						
	EMC EW052601-01 Jul. 09, 2021 / 01								
	Health EA052601-01 Jul. 09, 2021 / 02								
	Safety	WL20E0602-L0	Sep. 22, 2020						

This certificate is issued under the following additional and non-exhaustive list of provisions of the Radio Equipment Regulations 2017 (SI 2017/1206) of the Statutory Instruments of the UK:

- 1. **Regulation 7**: Before placing radio equipment on the market, a manufacturer must ensure that it has been designed and manufactured in accordance with the essential requirements
- 2. **Regulation 8:** Before placing radio equipment on the market, a manufacturer must ensure it has been constructed so that the radio equipment can be operated without causing an infringement of the applicable requirements on the use of the radio spectrum.
- 3. **Regulation 11:** A manufacturer must, for a period of 10 years beginning on the day on which the radio equipment is placed on the market, keep and, upon request, make available to an enforcing authority the following in relation to radio equipment—

 (a) a copy of the declaration of conformity, and (b) the technical documentation.

4. Regulation 15:

- (1) A manufacturer who considers, or has reason to believe, that radio equipment which they have placed on the market is not in conformity with Part 2, if appropriate, must immediately take the corrective measures necessary to—
- (a) bring the radio equipment into conformity,
- (b) withdraw the radio equipment, or
- (c) recall the radio equipment.
- (2) Where the radio equipment presents a risk, the manufacturer must immediately inform the market surveillance authority, of the risk, giving details of—
- (a) the respect in which the radio equipment is considered not to be in conformity with Part 2, and
- (b) any corrective measures taken and the results of those measures.

5. Regulation 12:

- (1) Before placing radio equipment on the market, a manufacturer must ensure that the radio equipment bears—
- (a) a type, batch or serial number, or
- (b) another element which allows the radio equipment to be identified.
- (2) Before placing radio equipment on the market, a manufacturer must indicate on the radio equipment—
- (a) the name, registered trade name or registered trade mark of the manufacturer,
- (b) a postal address at which the manufacturer can be contacted.
- (3) The information specified in paragraph (2) must be in a language which can be easily understood by end-users and the enforcing authority.
- (4) Where the size or nature of the radio equipment prohibits a manufacturer from complying with the requirement in paragraph (1) or paragraph (2), the manufacturer must provide the required information either on the radio equipment's packaging or in a document which accompanies the radio equipment.
- (5) The manufacturer's postal address must indicate a single point at which the manufacturer can be contacted.

6. Regulation 23:

- (1) Before placing radio equipment on the market, an importer must indicate on the radio equipment—
- (a) the name, registered trade name or registered trade mark of the importer, and
- (b) a postal address at which the importer can be contacted.
- (2) The information specified in paragraph (1) must be in a language which can be easily understood by end-users and the enforcement authority.
- (3) Paragraph (1) does not apply where—
- (a) either—
- (i) it is not possible to set out the information referred to in paragraph (1) on the radio equipment, or
- (ii) the importer has imported the radio equipment from an EEA state and places it on the market within the period of 18 months beginning with exit day, and
- (b) before placing the radio equipment on the market, the importer sets out the information referred to in paragraph (1)-
- (i) on the packaging; or
- (ii) in a document accompanying the safety component.



