

EU Declaration of Conformity

Product **OWL253 and OWS451 Wi-Fi modules**
 UBX-15015229
Date 29 November 2018

To whom it may concern,


Hereby, u-blox AG declares under its sole responsibility that the following product – OWL253 and OWS451 Wi-Fi modules – comply with the essential requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU for operation in the 2.4 GHz and the 5 GHz band until June 12, 2018, and for operation in the 2.4 GHz and 5.8 GHz band after June 12, 2018, and Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU.

Technology	Product name	Hardware release	Software release
Wi-Fi	OWL253i-04	All versions	WDK-09/WDK-11 v3.1.6 or later
	OWL253x-04		WDK-09/WDK-11 v3.1.6 or later
	OWS451i-04		Version 2.18.14048 or later
	OWS451x-04		Version 2.18.14048 or later
	OWS451i-06		Version 2.18.14048 or later
	OWS451x-06		Version 2.18.14048 or later

Essential Requirements Radio Equipment Directive 2014/53/EU	Standards
Safety & Health (Article 3.1a)	IEC 60950-1:2005 (2 nd Edition) IEC 60950-1:2006 + A11:2009 EN 62311:2008
EMC (Article 3.1b)	EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 IEC 60601-1-2:2007 (Medical Electrical Equipment)
Radio Spectrum Efficiency (Article 3.2)	EN 300 328 V2.1.1 EN 300 440 V2.1.1 EN 301 893 V2.1.1 except Adaptivity, clause 4.2.7 EN 301 893 V1.8.1 for Adaptivity, clause 4.8

Essential Requirements RoHS Directive 2011/65/EU	Standards
Prevention (Article 4.1)	EN 50581:2012

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Name	Daniel Ammann
Position	Director, u-blox AG
Date of issue	20 November 2018
Signature	

List of antenna

Antenna name	Manufacturer	Comment	Gain	
			2.4 GHz	5 GHz
FR05-S1-NO-1-004	Fractus	SMD Dual band antenna on OWL253i and OWS451i	0	+3
WCR-2400 -IP04 -SMRP	Centurion	Monopole, 10cm cable/U.FL RSMA	+2	-
SDM2-2400/1575	Mobile Mark	Patch, cable/U.FL	+2	-
PSTG0-2400HS - SMA - RSMA	Mobile Mark	Monopole, SMA RSMA	+0	-
FlatWhip-2400	ProAnt	Monopole, RSMA	+3	-
InSide-WLAN	ProAnt	Patch, dual band 10 cm cable/U.FL	+3	+3
Outside-2400	ProAnt	Patch, 7 cm cable/U.FL 10 cm cable/U.FL 25 cm cable/U.FL	+3	-
Ex-IT 2400 - SMA 28-001 - RP-SMA 28-001 - MHF 28-001	ProAnt	Monopole, SMA RSMA 10 cm cable/U.FL	+3	-
Ex-IT WLAN - SMA - RP-SMA - MHF	ProAnt	Monopole, dual band SMA RSMA 10 cm cable/U.FL	+3	+3
Ex-IT 2400 - MHF 70-001	ProAnt	Monopole, 10 cm cable/U.FL	+3	-
Ex-IT 2400 - SMA 70-002 - RP-SMA 70-002	ProAnt	Monopole, SMA RSMA	+3	-
R380.500.125 R380.500.127 R380.500.139	Pulse	RSMA SMA RSMA+SEAL	+2	-

Antenna name	Manufacturer	Comment	Gain	
			2.4 GHz	5 GHz
R380.500.124		SMA+SEAL		
NanoBlue-IP04	Laird Technologies	Patch, 10 cm cable/U.FL	+2	-
PlanTec m70cxr - SMA - RP-SMA	REEL	Patch, 20/100/300 cm cable SMA RSMA	+1	-