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Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
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Application of Class II Permissive Change

Company name: u-blox AG

FCC ID: XPYJODYW562

Approval date: 11/22/2024

To whom it may concern:

We, u-blox AG, hereby request a C2PC for the JODY-W5 module series with FCC ID: XPYJODYW562, to modify our existing certification.

This C2PC request covers the addition of two new module variants, JODY-W562-01A and JODY-W562-21A, to FCC ID: XPYJODYW562. The differences between the two new versions and the already certified versions are described below.

Variants	FCC ID	Operating temperature range	LTE Coexistence BPF		Date of Grant
			Bluetooth	2.4 GHz Wi-Fi	
JODY-W562-00A	XPYJODYW562	-40°C to +85°C	No	No	11/22/2024
M2-JODY-W562	XPYJODYW562	-40°C to +85°C	No	No	11/22/2024
JODY-W562-01A	XPYJODYW562	-40°C to +105°C	No	No	New variant
JODY-W562-21A	XPYJODYW562	-40°C to +105°C	Yes	Yes	New variant

JODY-W562-00A and JODY-W562-01A share the same PCB, RF paths and most of the components. The differences are:

- JODY-W562-00A is qualified for operating temperature range -40°C to +85°C and JODY-W562-01A qualified for operating temperature range -40°C to +105°C.
- Due to the difference in the qualified operating temperature range, some components were changed in JODY-W562-01A to equivalent components with different temperature grades. The differences in components are described in the table below:

Component	JODY-W562-00A	JODY-W562-01A
Chipset	NXP AW611HN/A1AMP	NXP AW611HN/A1BMP
	The chipsets have identical silicon and RF blocks.	
Crystal	TXC 8Y40062006	TXC AY40062304
	The crystals have the same frequency (40MHz), same size (2.0 x 1.6), same manufacturer (TXC). Other electrical parameters are also similar. The only differences are the operational and storage temperatures.	
Capacitors	Murata GRM033R60J105MEA2	Murata GRM033C80J105ME05

	CAP CER X5R 0201 1U0 20% 6.3V Murata GRM0335C1H101JA01 CAP CER X5R 0603 22U 20% 6.3V Murata GRM155R60J106ME44 CAP CER X5R 0402 10U 20% 6.3V Murata GRM033R60J104KE19D CAP CER X5R 0201 100N 10% 6.3V	CAP CER X6S 0201 1U0 20% 6.3V Murata GRM155C80E226ME11 CAP CER X6S 0402 22U 20% 2.5V Murata GRM155C80J106ME11 CAP CER X6S 0402 10U 20% 6.3V Murata GRM033C81A104KE14 CAP CER X6S 0201 100N 10% 10V
	The capacitors have the same values, footprints, packages/sizes, manufacturers and equivalent performances. Only temperature grading is different. They are used for powering the chipset and not placed on the RF path.	

JODY-W562-21A is identical to JODY-W562-01A, except for that an LTE coexistence band-pass filter has been added on the Bluetooth and the 2.4 GHz Wi-Fi RF paths on JODY-W562-21A .

To compare the measurement results of the new JODY-W562-01 and JODY-W562-21A modules with the already certified JODY-W562-00A module, spot checks of the following tests were performed:

JODY-W562-01A

Occupied Bandwidth (6 dB)

Occupied Bandwidth (99%)

Peak Power Output

Transmitter Spurious Radiated Emissions

Band Edge Compliance Conducted

Band Edge Compliance Radiated

Power Density

26 dB Bandwidth

6 dB Bandwidth

99% Bandwidth

Maximum Conducted Output Power

Peak Power Spectral Density

Undesirable Emissions ; General Field Strength Limits

Band Edge

JODY-W562-21A

Peak Power Output

Transmitter Spurious Radiated Emissions

Band Edge Compliance Radiated

Sincerely,



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