

TechNexion Ltd.

16F-5 No. 736, Zhongzheng Road, Zhonghe Dist, New Taipei City,

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Modular Approval Request FCC (KDB 996369 D01 & Part 15.212)

FCC ID: 2AKZA-IW416

	be covered by Single modular	Answer from applicant	
transmitters.			
1.	The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly.	Yes. The EUT provides the RF shielding. See EUT photo.	
2.	The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal.	Yes. The EUT has buffered modulation. Please see the Schematic Diagram. U1 RF IC: Wi-Fi baseband	
3.	The module must contain power supply regulation on the module	Yes. The EUT has own power supply requiation, please see the Schematic Diagram. U1 RF IC: Wi-Fi baseband Bandwidth supported: 20 MHz	



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	,
	- 20 in 40 MHz (upper and lower)
	- 40 MHz
	- 20 MHz duplicate
	802.11n modulation coding scheme (MCS) 0-7
	and MCS 32 (HT duplicate mode)
	Bluetooth baseband
	Baseband and radio Basic Data Rate
	(BDR)/Enhanced Data Rate (EDR) packet types 1 Mbit/s (GFSK), 2 Mbit/s (π/4-DQPSK), and 3
	Mbit/s (8DPSK)
	• Fully functional Bluetooth baseband—Adaptive
	Frequency Hopping (AFH), forward error correction,
	header error control, access code correlation, Cyclic Redundancy
	Check (CRC), encryption bit stream generation, and
	whitening
	BLE shared RF with BDR/EDR
	BLE Baseband and radio
	- 1 Mbps, 2 Mbps
	U4 PMIC:
	• Supports 2.7 V~5.5 V operating voltage
	Two 1.5 A synchronous buck converters
	Single LDO supports up to 525 mA
	• Ultra low 15 μA sleep current
	3 MHz switching frequency
	High output voltage accuracy
	Supports both DVS and AVS
	Single wire proprietary serial interface
4. The module must contain a permanently	Yes. The EUT meets the FCC antenna requirements;
4. The module must contain a permanently attached antenna, or contain a unique	unique antenna connector and photo of antenna are
antenna connector, and be marketed and	shown in the test report.
operated only with specific antenna(s),	
per §§ 15.203, 15.204(b), 15.204(c),	
15.212(a), 2.929(b).	
The module must demonstrate	Yes. The EUT was tested with a test board, please see
compliance in a stand-alone	the report.
configuration.	N BI 1777 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6. The module must be labeled with its	Yes. Please see exhibition label sample for the FCC ID
permanently affixed FCC ID label, or use	of this module.
an electronic display (see KDB Publication 784748).	
7. The module must comply with all specific	Yes. The EUT is compliant with all applicable FCC rules.
rules applicable to the transmitter,	Details instructions for maintaining compliance are give
including all the conditions provided in the	in the User Manual.
integration instructions by the grantee.	
8. The module must comply with RF	Yes. The EUT complies RF exposure requirement.
exposure requirements.	i i i

Ite	ms to be covered by Split modular transmitters.	Answer from applicant
1.	The modular transmitter must comply with all requirements of a single modular transmitter except for items (1) & (5) of the above single modular approval requirements.	Yes.
2.	Only the radio front end must be shielded. The physical crystal and tuning	Yes.



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	capacitors may be located external to the shielded radio elements. The interface between the split sections of the modular system must be digital with a minimum signalling amplitude of 150 mV peak-to-peak.	
3.	Control information and other data may be exchanged between the transmitter control elements and radio front end.	Yes.
4.	The sections of a split modular transmitter must be tested installed in a host device(s) similar to that which is representative of the platform(s) intended for use.	Yes.
5.	Manufacturers must ensure that only transmitter control elements and radio front end components that have been approved together are capable of operating together. The transmitter module must not operate unless it has verified that the installed transmitter control elements and radio front end have been authorized together. Manufacturers may use means including, but not limited to, coding in hardware and electronic signatures in software to meet these requirements, and must describe the methods in their application for equipment authorization.	Yes.

Note: A limited modular approval (LMA) may be granted for *single* or *split* modular transmitters that comply partially with the requirements above.

Name and surname of applicant (or <u>authorized</u> representative): Marcel vandenHeuvel

Date: September 18, 2023 Signature:

