Applica	nt/Grantee FCL Tech							
FCC ID: 2AK78-FBC1701								
	Section 15.212 Modular Transmitters							
Request	for Modular Approval 🛛 🖾 🛛 Requ	est for Limited Modular Approval						
	Requirements	EUT Conditions	Comply (Y/N)					
Single Modular Approval Requirements								
1	The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	FBC-1701 includes its own shielding. Please refer to external photo	Y					
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	Buffer is integrated in the nRF52832 chipset. See attached specification of chipset	Y					
3	The modular transmitter must have its own power supply regulation.	Internal voltage regulators are included in the nRF52832 chipset	Y					
4	The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). The "professional installation" provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	Unique ultra small surface mount coaxial connector is provided for connecting the antenna and modular transmitter. Refer to connector specification.	Y					
5	The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting	Testing was performed in a stand-alone configuration. The length of DC power cable was 2m. No Ferrite was used for power lines. No modification was made on accessories, peripherals, and support equipment. See test report for more details.	Y					

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	equipment. Any accessories, peripherals,		
	or support equipment connected to the		
	module during testing shall be		
	unmodified and commercially available		
	(see Section 15.31(i)).		
6	The modular transmitter must be	Label is affixed on the board. Label	Y
0	equipped with either a permanently	contains manufacture name and FCC ID	•
		number.	
	affixed label or must be capable of	number.	
	electronically displaying its FCC	<b>T</b> <i>i i</i> <b>i i i i i</b> <i>i</i>	
	identification number.	Instruction is included in the manual to	
	(A) If using a permanently affixed label, the	display FCC ID number on the host unit:	
	modular transmitter must be labeled with its own FCC identification number, and, if the FCC	"Contains FCC certified transmitter	
	<i>identification number is not visible when the</i>	module FCC ID: 2AK7S-FBC1701"	
	module is installed inside another device, then		
	the outside of the device into which the module is		
	installed must also display a label referring to		
	the enclosed module. This exterior label can use		
	wording such as the following: "Contains		
	Transmitter Module		
	FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording		
	that expresses the same meaning may be used.		
	The Grantee may either provide such a label, an		
	example of which must be included in the		
	application for equipment		
	authorization, or, must provide adequate		
	instructions along with the module which explain		
	this requirement. In the latter case, a copy of these instructions must be included in the		
	application for equipment authorization.		
	<i>(B) If the modular transmitter uses an electronic</i>		
	display of the FCC identification number, the		
	information must be readily accessible and		
	visible on the modular transmitter or on the		
	device in which it is installed. If the module is		
	installed inside another device, then the outside		
	of the device into which the module is installed		
	must display a label referring to the enclosed module. This exterior label can use wording such		
	as the following:		
	"Contains FCC certified transmitter module(s)."		
	Any similar wording that expresses the same		
	meaning may be used. The user manual must		
	include instructions on how to access the		
	electronic display. A copy of these instructions		
	must be included in the application for equipment authorization.		
7		Complian with this requirement Diago	Y
/	The modular transmitter must comply with any specific rules or operating	Complies with this requirement. Please refer to user manual for detail	1
	with any specific rules or operating	information.	
	requirements that		
	ordinarily apply to a complete		
	transmitter and the manufacturer must		
	provide adequate instructions along with		
	the module to explain any such		
	requirements. A copy of these		
	instructions must be included in the		
	application for equipment authorization.		
	application for equipment authorization.		

8	The modular transmitter must comply	This modular transmitter complies with	Y		
	with any applicable RF exposure	RF exposure requirement. Refer to			
	requirements in its final configuration.	report for more detail information			
A limited modular approval may be granted for single or split modular transmitters that do not comply with					

A **limited modular approval** may be granted for single or split modular transmitters that do not comply with all of the above requirements, *e.g.*, shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable Part 15 requirements under the operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured.