

Applicant	nt/Grantee Microsoft Corporation					
FCC ID:	FCC ID: C3K1575					
	Sec	ction 15	.212 N	Mod	lular Transmitters	
Request f	or Modula	r			quest for Limited	
Approval				Mo	dular Approval	
	Req	uiremen	its		EUT Conditions	Comply
						(Y/N)
					oval Requirements	
1	The radio			he	Device does not have its own RF shield. Radiated & conducted emissions	N
	modular t				(15.205, 15.209, 15.207) testing outside	
	must have				and installed in host system.	
	shielding.					
	crystal an	_	-			
	capacitors					
	located ex			_		
2	shielded in the modu					Y
2	must have			:1		1
	modulation					
	(if such in	-	_	•		
	provided)	-		t		
	the modu				All inputs to the module are buffered	
	with Part		ошрту		through logic or microprocessor inputs.	
	requireme	_	ler			
	condition					
	data rates	or over	-			
	modulation	n.				
3	The modu	ılar tran	smitte	er	Internal 1.8V power regulator. 12MHz	Y
	must have	e its owr	n pow	er	crystal provides reference to generate	
	supply re	gulation			LO frequencies.	
4	The modu			er	Antennas are permanently connected and non replaceable by the user.	Y
	must com		ı the		and non replaceable by the user.	
	antenna a					
	transmiss					
	requireme			18		
	15.203, 1	, ,				
	15.204(c).		tenna			
	must eith	er be				

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	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.		
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	Device was tested both standalone with Laptop support device and installed in the host system.	Y

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	unknown, at least 10		
	centimeters to insure		
	that there is no coupling		
	between the case of the		
	module and supporting		
	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	Refer to label format exhibit	Y
0		There is label format extribit	1
	must be equipped with		
	either a permanently		
	affixed label or must be		
	capable of electronically		
	displaying its FCC		
	identification number.		
	(A) If using a permanently		
	affixed label, the modular		
	transmitter must be labeled		
	with its own FCC identification		
	number, and, if the FCC		
	identification number is not		
	visible when the 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		

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	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. (B) If the modular transmitter uses an electronic 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		icroso
	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	The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with	There are no adjustments or user accessible controls in hardware or software that will influence operation of the transmitter.	Y

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	the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.		
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	Refer to RF exposure calculation exhibit.	Y

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.

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