Xetawave LLC FCC Limited Single-Modular Approval Declaration FCC ID.: PEJ-9382010 Product Name: XETA1-M2

Modular Approval Requirement	Explanation of Compliance	Explanation of Limitation
1. The radio elements of the modular transmitter must have	The transmitter RF section is entirely	
their own shielding, except the crystal and tuning capacitors	shielded.	
may be external to the shield.		
2. The modular transmitter must have buffered	Modulation inputs are not provided. Data	
modulation/data inputs to ensure that the module will comply	inputs are buffered and formatted by a	
with Part 90 requirements under conditions of excessive data	digital signal processor so that over-	
rates or over-modulation.	modulation is not possible.	
3. The modular transmitter must have its own power supply regulation.	The power supplies used on the XETA1-M2 are regulated, with the exception of the final PA power supply. However, the final PA is powered with a regulated power supply by the product in which the module is integrated.	The power supply for the final PA isn't regulated in the module, but is regulated at the product level. Xetawave controls all product designs in which the XETA1-M2 is integrated, and all products have an internal regulated power supply that supplies power to the XETA1-M2. The power supply supplies 10 volts DC at 3 amperes minimum, and it has 0.01% load and line regulation, consistent with the power supply used in the testing. In addition, the input voltage is monitored by the DSP, and it will disable transmit operation when the input voltage is outside of the range where specified performance is tested and guaranteed.

Modular Approval Requirement	Explanation of Compliance	Explanation of Limitation
4. The modular transmitter must comply with the antenna and	Not applicable to a radio module that	
transmission requirements of §§ 15.203, 15.204(b) and	operates under Part 90 in licensed	
15.204(c).	frequency bands.	
5. The modular transmitter must be tested in a standalone	The XETA1-M2 was tested in a standalone	
configuration AC or DC power lines and data input/output	configuration without peripherals or other	
lines connected to the module must not contain ferrites unless	support equipment. The power source was	
they are marketed with the module, and the length of these	a regulated lab power supply. Xetawave	
lines shall be the length typical in actual use Any	controls the design of all products in which	
accessories, peripherals, or support equipment shall be	the module is integrated. In these product	
unmodified and commercially available.	designs, the module has no DC/signal cable	
	since it is plugged directly into an interface	
	board.	
6. The modular transmitter must be equipped with either a	The XETA1-M2 has a permanently affixed	
permanently affixed label or must be capable of electronically	label with the FCC ID shown. Xetawave	
displaying its FCC identification number if the FCC	controls the design of products in which	
identification number is not visible when the module is	the module is integrated, and the FCC ID	
installed inside another device, then the outside of the device	number of the module is shown on the	
into which the module is installed must also display a label	exterior of these end-products.	
referring to the enclosed module.		

Modular Approval Requirement	Explanation of Compliance	Explanation of Limitation
7. The modular transmitter must comply with any specific	The XETA1-M2 complies with the applicable	The module is integrated only in end-
rules or operating requirements that ordinarily apply to a	sections of Part 90 for 150-174 MHz	products that are designed and
complete transmitter and the manufacturer must provide	operation.	manufactured by Xetawave, and the
adequate instructions along with the module to explain any		configuration of the module is
such requirements. A copy of these instructions must be		controlled at the end-product level. All
included in the application for equipment authorization.		internal module parameters and
		calibration data are controlled by
		password and cannot be accessed by
		professional installers or end-users.
		The installers are permitted to select
		only the frequency and modulation
		type, but the selection is limited to
		frequencies and modulation types in
		the equipment authorization. Once
		configured, these parameters are
		protected by a password selected by the installer and cannot be changed by
		the user. Since the module is not
		available to other parties, there are no
		separate integration instructions
		provided. However, the instructions
		for the end-product describe how to
		configure it according to the specific
		requirements of the user's license.
8. The modular transmitter must comply with any applicable	Please refer to the MPE calculations in the	
RF exposure requirements in its final configuration.	user manual. The MPE calculations are	
	identical to the calculation that applies to	
	the end-product in which the XETA1-M2 is	
	integrated. This information is included in	
	the end-product user manual.	