Xetawave LLC

FCC Limited Single-Modular Approval Declaration

FCC ID.: PEJ-XKJS7

Product Name: XETA7M-T

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 15 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	This radio module is intended as OEM	Only one rail of final PA supply of 7.5V
regulation.	product for professional installation and	isn't regulated. DSP on the radio
	will work with interface boards that provide	module monitors input voltage and will
	specified input voltage of 7.5V ±10%. Clear	disable transmit operation when input
	instructions for acceptable voltage range	voltage goes outside of the range
	will be provided in the manual and on the	where specified performance is tested
	sticker attached to each radio module.	and guaranteed.
	Module itself will not be sold to general	
	public. This should be sufficient to meet	
	Limited Modular approval	
4. The modular transmitter must comply with the antenna and	Unit was tested with antenna that is	
transmission requirements of Title 47 part §27.53(9)(f) and	representative of the antenna type that will	
§27.56.	be used with XETA7M-T radio module in	
	normal operation. Maximum allowed	
	Antenna Gain and requirements from part	
	§27.56 for air navigation safety will be	
	provided in the manual for professional	
	installation.	

Modular Approval Requirement	Explanation of Compliance	Explanation of Limitation
5. The modular transmitter must be tested in a standalone	The XETA7M-T 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	either designs interface boards or provides	
accessories, peripherals, or support equipment shall be	clear and specific requirements for all	
unmodified and commercially available.	products in which the module is integrated.	
	In these product designs, the module has	
	no DC input cable since it is plugged	
	directly into an interface boards.	
6. The modular transmitter must be equipped with either a	The XETA7M-T 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. Copy of FCC	
referring to the enclosed module.	ID label is also provided in the manual.	

Modular Approval Requirement	Explanation of Compliance	Explanation of Limitation
7. The modular transmitter must comply with any specific	The Xeta7M-T 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 757-758 MHz and	products that are designed and
complete transmitter and the manufacturer must provide	787-788 MHz 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 Xeta7M-T is	
	integrated. This information is included in	
	the end-product user manual.	