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## **Leaders in Wireless Telecom**

September 4, 2013

## FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road Columbia, MD 21046 U.S.A.

**Subject: Request for Modular Approval** 

**Applicant:** Microhard Systems Inc.

Model: p900

**Product:** 

Pico 900MHz 1W FHSS Module

FCC ID: NS913P900 IC: 3143A-13P900

Dear Sir/Madam,

We, **Microhard Systems Inc.**, request modular approval included below is a clarification on the modular compliance.

Hany Shenouda

Director of Engineering

Hary A Sherry

Microhard Systems Inc.



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	Requirements for Modular Transmitters	Manufacturer's Clarification
(a)	In order to be considered a transmitter module, the device must be complete RF transmitter, i.e., it must have its own reference oscillator (e.g., VCO), antenna, etc The only connectors to the module, if any, may be power supply and modulation/data inputs	The transmitter is completed with its own reference oscillator, antenna. Only connectors provide are dc supply, data and rf ports are provided with the modular transmitter
(b)	Compliance with FCC RF Exposure requirements may, in some instances, limit the output power of a module and/or the final applications in which the approved module may be employed	The radio is intended for use in mobile and fixed applications.
(c)	While the applicant for a device into which an authorized module is installed is not required to obtain a new authorization for the module, this does not preclude the possibility that some other form of authorization or testing may be required for the device (e.g., a WLAN into which the authorized module is installed still be authorized as PC peripheral, subject to the appropriate equipment authorization)	The equipment under complies with FCC Part15, Subpart B, Class B – Unintentional radiators
(d)	In the case of a modular transceiver, the modular approval policy only applies to the transmitter portion of such devices. Pursuant to section 15.101(b), the receiver portion will either be subject to Verification, or it will not be subject to any authorization requirements (unless if is a Scanning Receiver, in which case it is also subject to Certification, pursuant to Section 15.101(a)	The receiver is verified.
(e)	The holder of the grant of equipment authorization (Grantee) of the module is responsible for the compliance of the module in its final configuration, provided that the OEM, integrator, and /or end user has complied with all of the instructions provided by the Grantee which indicate installation and/or operating conditions necessary for compliance.	End-users must comply with the following instruction sated in the users' manual:  Labeling requirement for equipment using this modular transmitter. RF Exposure Warning for compliance with FCC Rules 2.1091 and 1.1307 when the radio is used in a mobile or base system
	Requirements for Modular Transmitters	Manufacturer's Clarification
1.	The modulator transmitter must have its own RF shielding. This is intended to ensure that the module does not have to reply upon the shielding provided by the device into which it is installed in	The modular transmitter has its own RF shielding



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	The modular transmitter has
n/data inputs (if such inputs are	buffered modulation/data inputs
to ensure that the module will	
th Part 15 requirements under	
of excessive data rates or overmodulation.	
lar transmitter must have its own	The modular transmitter has its
	own analog and digital power supply regulation.
	The radio and its associated antennas are provided
	with the special coupling antenna
into of section 13.203 and 13.201(c). The unterma must	connectors MMCX
ly attached or employ a "unique"	Connectors wiviers
	The modular transmitter was
	tested in a stand-alone configuration
entimeters to insure that there is no coupling between	
f the module and supporting equipment. Any	
See Section 15.31(I)).	
	Ill modular transmitter emissions to comply with Part It is also intended to prevent coupling between the RF of the module and any wires or circuits in the device in the module is Such coupling may result in noncompliant operation. It are transmitter must have buffered in/data inputs (if such inputs are to ensure that the module will ith Part 15 requirements under is of excessive data rates or overmodulation. It is intended to it the module will comply with Part 15 requirements of the design of the power supplying circuitry in the owhich the module is installed. It is installed. It is installed in the module is installed. It is an installed in the module is installed. It is a comply with the antenna must it is attached or employ a "unique" pupler (at all connections between the module and the including the cable). Any antenna used with the module proved with the module, either at the time of initial initi