



# Microhard Systems Inc.

*Leaders in Wireless Telecom*

#17, 2135-32nd Ave N.E.  
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February 16, 2006

**FEDERAL COMMUNICATIONS COMMISSION**

7435 Oakland Mills Road

Columbia, MD 21046

U.S.A.

**Subject: Request for Modular Approval**

**Applicant:** Microhard Systems Inc.  
**Product:** 900MHz OEM Frequency Hopping / DTS Module  
**Model:** MHX921  
**FCC ID:** NS906P21

Dear Sir/Madam,

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

Hany Shenouda  
Director of Engineering  
Microhard Systems Inc.





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	into which the module is installed. Such coupling may result in noncompliant operation.	
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 overmodulation.	The modular transmitter has buffered modulation/data inputs
3.	The modular transmitter must have its own power supply regulation. This is intended to ensure that the module will comply with Part 15 requirements regardless of the design of the power supplying circuitry in the device into which the module is installed.	The modular transmitter has its own power supply regulation.
4.	The modular transmitter must comply with the antenna requirements of section 15.203 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). Any antenna used with the module must be approved with the module, either at the time of initial authorization or through a Class II permissive change. The "professional installation" provision of Section 15.203 may not be applied to modules.	The radio and its associated antennas are provided with the special coupling antenna connectors (MCX or reversed SMA).
5.	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed. Unless the transmitter module will be battery powered, it must comply with the AC 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 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 equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified or commercially available (See Section 15.31(I)).	The modular transmitter was tested in a stand-alone configuration