ATCB   17 Jan 2006
6731 Whittier Avenue
McLean, VA 22101

Attention: Dennis Ward

RE: FCC ID: SNKHNET50BS8_ATCB003040

The following is in response to your letter dated 22 Dec 2005:

1. Please note that you have provided a photo of the radio rf board with the shields removed, but
there is no photo provided of the multiplexing board which also has shields. Please provide photos
of boards with shields removed (only one rf transmitter need be shown).

Photos provided

2. Please note that the schematics for the transmitter board states, "09-14-04 Added a circuit board
to hold J3, J4, L6 and C32 for the 8 channel Base Station application. MAH". The internal
photos however appear to be only of the receiver version and not of the transmitter. Please
provide a photo of this circuit board and how it connects to the modified transmitter board.

Photo provided

3. Please explain how the modification provides connections to J3 and J4 on the transmitter board as
related to the connections from the other receiver boards. The explanation does not appear to
agree with the schematics. For example, the terms RF, ANT; RF, Out; and RF, in are shown from
the modified TX unit in the "8C Base Schematic", while only the term RF is applied to the other
boards. The multiplexer uses the terms RF, J1 etc. Are the terms RF from the receiver boards the
same as the term 'RF, in' from the modified transmitter? Also, J2 is referenced as controlling TXD,
RXD and GND pins on all of the spread spectrum boards. However, J2 as shown on the tx and rx
schematics appears to be an antenna connector and not as indicated in the 8C base schematic
(i.e. TXD, RXD, GND). Please provide an operational description that clearly explains how this
works and how the other radios boards prevented from transmitting and which clearly identifies that
correct jacks etc.

<div align="center">ConectiSys H-Net 8 Channel Basestation
Transmit Unit Modification Description</div>

In an effort to reduce production costs, only one version of RF board will be used in the ConectiSys H-
Net 8C basestation. However, of the eight radios that are in the basestation, seven are used only in a
receive mode. In further effort to reduce complexity of the overall system a passive multiplexing
scheme was implemented. In this scheme the transmit unit's main RF connector, J2, is connected
directly to the antenna. The unit is modified so that all received RF signals are sent directly from the
unit's RF transmit/receive switch (U8) to the multiplexer via J4. The multiplexer then distributes the
signal back to the transmit unit at J3 which connects to the rest of the unit's receive section, as well as

the seven other radios in receive mode. The seven radios not used for transmit are controlled by the system's software to prevent accidental transmission.

4. FYI – please note that units of measurement should always be applied to readings. Please note that it is assumed that the meter reading, ant factor, cable factor and am factor are in dB. In the future, please identify the units of measurements for all data columns.

Thank you for the input, you are correct factors are in dB. Future submittals should reflect this change.

5. Please note that the 731 states that the operating frequency range of the device is from 902.62 to 927.77MHz. Please note however, that the list of frequencies in the hopping sequence chart shows that for pattern 1 the frequency range is 902.8MHz to 927.6MHz and that the frequency range for pattern 8 is 903.15MHz to 927.95MHz. This means that the total frequency range for the device is from 902.8MHz to 927.95MHz. Please correct the lowest frequency range listed on the 731 to coincide with the lowest frequency listed in the hopping table (902.8MHz) and please provide data that shows compliance for the total frequency range. Alternately, please show how this device only uses pattern 1 through pattern 3 as any other pattern would exceed the highest frequency listed on the 731 and tested in the report. Alternately, please test a transmitter operating under pattern 8 to show compliance with the highest frequency listed in the hopping table.

The correct hopping frequency has been provided.

Kindest regards,

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