

scott

To: 'kyle@celectronics.com'; 'mike@celectronics.com'
Cc: 'Jeff@celectronics.com'
Subject: FCC ID: NWNM104X

Mr. Fujimoto:

In order for processing of this application (FCC ID: NWNM104X) to continue, the following issue(s) will have to be addressed:

- 1) Please indicate the type of modulation the system utilizes. If the device uses pulsed modulation, please submit plots of the duty cycle, accompanied by the calculations used for determining the percentage.
- 2) Please indicate the procedure used for determining the average level of the emissions, where appropriate.
- 3) Please submit data showing compliance of the device at and/or just outside the band edges of the 902 to 928 MHz band.
- 4) The block diagram submitted is not sufficient. As per section 2.1033(b)(5) of the rules, the block diagram shall show "the frequency of all oscillators in the device. The signal path and frequency shall be indicated at each block. The tuning range(s) and intermediate frequency(ies) shall be indicated at each block." Please resubmit.
- 5) The schematic diagram submitted is not sufficient. It does not show the values of any components. Also, there is no schematic for the RF section. Please resubmit.
- 6) The internal photos show what appears to be a metal shield over the RF section. Please provide photos with the shield removed.
- 7) The modification letter does not indicate that the modifications will be implemented into product models. Please submit a new letter.
- 8) Please indicate what the "input" port is used for, and to what it is typically connected.
- 9) Please indicate whether the cables with ferrites for all three ports (input, output, horn) are provided for each device. If cables are not provided for one or more of these ports, please indicate how compliance will be maintained if the user plugs in his own cable. If cables are provided for all ports, please indicate by what method the applicant has taken to prevent the user from plugging in an alternate cable without ferrites. Is the connector a non-standard type? Are instructions provided? Please explain in detail.

The item(s) indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Please upload responses and/or exhibits to the electronic filing website. Your correspondence number is NWNM104X-1.

Best regards,

12/23/2004

Scott McCutchan
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Best regards,

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Correspondence by Project

Project Number:

2135132874

Correspondence Number	Memo
NWNNM104X-1	<p>1) Please indicate the type of modulation the system utilizes. If the device uses pulsed modulation, please submit plots of the duty cycle, accompanied by the calculations used for determining the percentage. Response: The EUT uses FSK modulation -- which is not pulse modulation.</p> <p>2) Please indicate the procedure used for determining the average level of the emissions, where appropriate. Response: The frequencies above 1 GHz were averaged manually by narrowing the video filter (VBW) down to 10 Hz and putting the sweep time on AUTO on the EMI Receiver to keep the amplitude reading calibrated.</p> <p>3) Please submit data showing compliance of the device at and/or just outside the band edges of the 902 to 928 MHz band. Response: There were NO emissions detected at 902 MHz and 928 MHz. Please note the 20 dB bandwidth of each signal was only 511 kHz.</p> <p>4) The block diagram submitted is not sufficient. As per section 2.1033(b)(5) of the rules, the block diagram shall show "the frequency of all oscillators in the device. The signal path and frequency shall be indicated at each block. The tuning range (s) and intermediate frequency(ies) shall be indicated at each block." Please resubmit. Response: Please see the Revised Block Diagram exhibit.</p> <p>5) The schematic diagram submitted is not sufficient. It does not show the values of any components. Also, there is no schematic for the RF section. Please resubmit. Response: The schematics have been revised -- a separate page will show the component values of each location.</p> <p>6) The internal photos show what appears to be a metal shield over</p>

the RF section. Please provide photos with the shield removed. Response: Please see the Internal Photo exhibit for this. 7) The modification letter does not indicate that the modifications will be implemented into product models. Please submit a new letter. Response: Please see the revised Modification letter exhibit 8) Please indicate what the "input" port is used for, and to what it is typically connected. Response: Please see the exhibit showing definitions of ports. 9) Please indicate whether the cables with ferrites for all three ports (input, output, horn) are provided for each device. If cables are not provided for one or more of these ports, please indicate how compliance will be maintained if the user plugs in his own cable. If cables are provided for all ports, please indicate by what method the applicant has taken to prevent the user from plugging in an alternate cable without ferrites. Is the connector a non-standard type? Are instructions provided? Please explain in detail. Response: Please see the revised owner's manual. The EUT will be provided with cables and a statement to the effect not using the cables provided will void FCC compliance.