



GE MDS

175 Science Parkway, Rochester, New York 14620 USA
(585) 242-9600 Phone
(585) 242-9620 Fax
March 24th, 2008

FEDERAL COMMUNICATIONS COMMISSION

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

Subject: FCC, C2PC description

Applicant: Microwave Data Systems Inc.

Product: MDS INET

FCC ID: E5MDS-NH900


Dear Sir/Madam,

GEMDS is requesting a class 2 permissive change to the INET transceiver. The purpose is to add an antenna and to modify the circuitry as detailed below:

- Addition of a OMNI antenna to the grant
This was not initially tested when the INET was tested and approved.
The new antenna is an omni-directional pattern antenna with a gain of 9dBs (11.2dBi) Kathrein Scala Part # OGB9-915
- Addition of a capacitor to the low pass filter section on the rf output
This part change is to account for a process change in PCB manufacturing when the PCB was outsourced to China earlier this year.
The new PCBs have slightly different layer spacings to the original PCBs shipped prior to this change. The new spacing reduced the attenuation of the low pass filter as observed during tests on the new 11.2dBi antenna.
Adding the capacitor returns the frequency-amplitude response of the filter to match the original design.
This modification has been implemented on all new boards.
Radios using the original PCBs without the additional capacitor will be able to use the new antenna without requiring the additional capacitor as the low pass filter response is adequate to reduce the level of the third harmonic below the spurious emission limit. This was verified on an older PCB whilst at Elliott.

If you have any queries, please do not hesitate to contact me at 585 242-8440:

Yours truly,

Signed:  Name: Dennis McCarthy

Dennis McCarthy

Agency Compliance Engineer

Microwave Data Systems

175 Science Parkway

Rochester NY 14620

Phone (585) 242-8440

Email Dennis.McCarthy2@GE.com