



GE MDS

175 Science Parkway, Rochester, New York 14620 USA  
(585) 242-9600 Phone  
(585) 242-9620 Fax  
June 19th, 2015

**FEDERAL COMMUNICATIONS COMMISSION**

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

**Subject: GE MDS SDM4 digital radio part 90 Spectrum Efficiency**

**Applicant: GE MDS LLC**  
**Product: SDM4**  
**FCC ID: E5MDS-SDM4**

Dear Sir/Madam,

Applications for part 90 certification of transmitters designed to operate on frequencies in the 150.8–162.0125 MHz, 173.2–173.4 MHz, and/or 421–512 MHz bands, received on or after January 1, 2005, must include a certification that the equipment meets a spectrum efficiency standard of one voice channel per 6.25 kHz of channel bandwidth.

Additionally, if the equipment is capable of transmitting data, has transmitter output power greater than 500 mw, and has a channel bandwidth of more than 6.25 kHz, the equipment must be capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth.

The SDM4 data transceiver operates in 3 bandwidths with modem “over the air” data rates.

- 6.25KHz channels @ 4800 bps
- 12.5KHz channels @ 9600 bps
- 25KHz channels @ 19200 bps

This letter serves as attestation supporting evidence for spectrum efficiency.  
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  
GE MDS LLC  
175 Science Parkway  
Rochester NY 14620  
Dennis.McCarthy2@GE.com