



GE MDS

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August 14th, 2019

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

Subject: GE MDS SDM4-1 digital radio part 90 Spectrum Efficiency

Applicant: GE MDS LLC
Product: SDM4 -1
FCC ID: E5MDS-SDM4-1


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 SDM4-1 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 585 734-3899
Yours truly,

Signed:  Name: Dennis McCarthy

Dennis McCarthy
Lead Agency Compliance Engineer
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