



GE MDS

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June 25th, 2015

**FEDERAL COMMUNICATIONS COMMISSION**

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

**Subject: GE MDS LN400 digital radio part 90 frequency attestation**

**Applicant: GE MDS LLC**  
**Product: LN400 digital transceiver**  
**FCC ID: E5MDS-LN400**

Dear Sir/Madam,

The LN400 is a multi-modem system operating between 406.1-470MHz, in channel bandwidths of 6.25kHz, 12.5kHz, and 25.0kHz. Modulation choices in each bandwidth include QPSK, 16QAM, and 64QAM. OTA data rate and maximum ERP power is based on the user site license and on the modem choice and the applicable emission mask for the operating frequency.

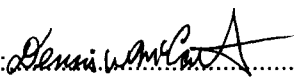
The LN400 covers 406.1-470MHz. The device is designed to operate under the part 90 rules in the following sub bands 406.1-420 MHz, 421-430MHz, 450-470MHz. FCC rules are violated if the device operates on unauthorized frequencies.

Bandwidth kHz	Modem symbols per second	QPSK (x2)	16QAM (x4)	64QAM (x6)	Maximum Output Power	Comments / Restrictions
		OTA bps	OTA bps	OTA bps		
6.25	4800	9600	19200	28800	41 dBm	
12.5	9600	19200	38400	57600	41 dBm	
12.5	10000	20000	40000	60000	41 dBm	
25.0	16000	32000	64000	96000	41 dBm	Max. Rate depends on operating frequency
25.0	20000	40000	80000	120000	41 dBm	Max. Rate depends on operating frequency

This letter serves as attestation supporting evidence for the frequency banding.

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  
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