



GE MDS

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April 20, 2017

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

**Subject: Extended Frequency Attestation**

**Applicant: GE MDS LLC.**  
**Product: MDS LN100**  
**FCC ID: E5MDS-LN100**

Dear Sir/Madam,

The LN100 is a multi-modem system operating between 150-174MHz, in channel bandwidths of 6.25kHz, 12.5kHz, and 25.0kHz. Modulation choices in each bandwidth include CPFSK, 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 LN100 covers 150-174MHz. The device is designed to operate under the part 90 rules in the following sub band 150-174MHz. FCC rules are violated if the device operates on unauthorized frequencies.

Bandwidth kHz	Modem symbols per second	CPFSK (x1) OTA bps	QPSK (x2) OTA bps	16QAM (x4) OTA bps	64QAM (x6) OTA bps	Maximum Output Power	Comments / Restrictions
6.25	4800	--	9600	19200	28800	41.4 dBm	Max. Rate depends on operating frequency
12.5	9600	--	19200	38400	57600	41.4 dBm	Max. Rate depends on operating frequency
12.5	10000	--	20000	40000	60000	41.4 dBm	Max. Rate depends on operating frequency
12.5	9600	9600	--	--	--	41.4 dBm	Max. Rate depends on operating frequency
25.0	16000	--	32000	64000	96000	41.4 dBm	Max. Rate depends on operating frequency
25.0	20000	--	40000	80000	120000	41.4 dBm	Max. Rate depends on operating frequency
25.0	19200	19200	--	--	--	41.4 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**  
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