

# **FCC RF EXPOSURE REPORT**

**FCC ID: ZC4LX220N**

**Project No. : 1612C312**  
**Equipment : ADSL2+/VDSL2**  
**Model : LX220N**  
**Applicant : Corporativo Lanix S.A. de C.V.**  
**Address : Carretera Internacional a Nogales km 8,5.**  
**Hermosillo, Sonora, México. CP 83160**  
**According: : FCC Guidelines for Human Exposure IEEE**  
**C95.1**

**B T L I N C .**

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	3
2	N/A	N/A	Printed	N/A	3

## TEST RESULTS

EUT :	ADSL2+/VDSL2	Model Name :	LX220N
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	20.09	102.0939	0.04055	1	Complies
3	1.9953	20.08	101.8591	0.04045	1	Complies
3	1.9953	19.97	99.3116	0.03944	1	Complies

EUT :	ADSL2+/VDSL2	Model Name :	LX220N
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	24.12	258.2260	0.10255	1	Complies
3	1.9953	25.79	379.3150	0.15064	1	Complies
3	1.9953	22.78	189.6706	0.07533	1	Complies

EUT :	ADSL2+/VDSL2	Model Name :	LX220N
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	26.44	440.5549	0.17496	1	Complies
3	1.9953	28.16	654.6362	0.25999	1	Complies
3	1.9953	25.53	357.2728	0.14189	1	Complies

EUT :	ADSL2+/VDSL2	Model Name :	LX220N
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3	1.9953	25.27	336.5116	0.13364	1	Complies
3	1.9953	26.06	403.6454	0.16031	1	Complies
3	1.9953	24.64	291.0717	0.11560	1	Complies

Note: the calculated distance is 20 cm.