

RF Exposure Evaluation declaration

Product Name: JukeBlox Networked Media Module

Model No. : CX870-3MB

FCC ID : PPQ-CX8703MB

Applicant: Lite-On Technology Corp.

Address: 4F, 90, Chien 1 Road, Chung Ho, New Taipei City 235, Taiwan, R.O.C.

Date of Receipt : Sep. 25, 2013

Date of Declaration: Oct. 24, 2013

Report No. : 139522R-RFUSP42V01

The declaration results relate only to the samples calculated.

The declaration shall not be reproduced except in full without the written approval of QuieTek Corporation.

Page: 1 of 3 Version: 1.0



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(Minutes)	
(A) Limits for Occupational/ Control Exposures					
300-1500			F/300	6	
1500-100,000			5	6	
(B) Limits for General Population/ Uncontrolled Exposures					
300-1500			F/1500	6	
1500-100,000			1	30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

Page: 2 of 3 Version: 1.0



1.3. Test Result of RF Exposure Evaluation

Product : JukeBlox Networked Media Module

Test Item : RF Exposure Evaluation

Test Site : No.3 OATS

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.29dBi in logarithm scale.

Output Power Into Antenna & RF Exposure Evaluation Distance

Output Power to Antenna	Power Density at $R = 20 \text{ cm}$	
(mW)	(mW/cm2)	
173.3804	0.058443	

Note: Power density in column 4 is much lower than the limit (1 mW/cm2).

Page: 3 of 3 Version: 1.0