

RF Exposure Report

Report No.: SA180509C29A

FCC ID: RID-LM110H1

Test Model: LM-110H1

Received Date: Mar. 17, 2016

Test Date: May 18 ~ Sep. 08, 2016

Issued Date: Jun. 01, 2018

Applicant: GlobalSat WorldCom Corporation

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(R.O.C)

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SA180509C29A	Original release.	Jun. 01, 2018

1 Certificate of Conformity

Product: LoRa Wireless Module

Brand: GlobalSat

Test Model: LM-110H1

Sample Status: Mass product

Applicant: GlobalSat WorldCom Corporation

Test Date: May 18 ~ Sep. 08, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :



Date: Jun. 01, 2018

Suntee Liu / Specialist

Approved by :



Date: Jun. 01, 2018

Bruce Chen / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

3 Calculation Result of Maximum Conducted Power

Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Hybrid Mode (125kHz Bandwidth, 64 channels)				
18.33	2.95	20	0.027	0.601
Hybrid Mode (250kHz Bandwidth, 25 channels)				
18.29	2.95	20	0.026	0.601
Hybrid Mode (500kHz Bandwidth, 25 channels)				
19.24	2.95	20	0.033	0.601
Hybrid Mode (500kHz Bandwidth, 8 channels)				
19.24	2.95	20	0.033	0.601
DTS Mode (500kHz Bandwidth, 25 channels)				
19.24	2.95	20	0.033	0.601

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