

Report No.: FA711841-01

Project No: CB10605077

RF Exposure Evaluation Report

Equipment : Media Terminal Adaptor

Brand Name : InnoMedia

: MTA8328-1W/MTA8328-1WV Model No.

FCC ID : 2ALCB-MTA-W-0000001

Standard : 47 CFR Part 2.1091

: INNOMEDIA TECHNOLOGY INC **Applicant**

> 3RD FL HSINCHU SCIENCE-BASED INDUSTRIAL PARK 3 INDUSTRIAL E RD IX HSINCHU 300 TAIWAN

Manufacturer : LUEN HUEI ELECTRONICS CO..LTD

17 Kuang Fu Rd., Hslnchu Industrial, Park

HsInchu, Taiwan, R.O.C

The product sample received on Apr. 12, 2017 and completely tested on May 02, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit.

Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

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: Rev. 01

Issued Date

: May 16, 2017

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REVISION HISTORY

REPORT NO. VERSION		T NO. VERSION DESCRIPTION		
FA711841-01	Rev. 01	Initial issue of report	May 16, 2017	

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1 General Description

1.1 EUT General Information

RF General Information						
Evaluation Frequency Range (MHz)		Operating Frequency (MHz)	Modulation Type			
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5700 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			

1.2 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	el Name WiFi USB Push Button		Push Button	FXS port	
MTA8328-1W	Υ	N	Υ	1	
MTA8328-1WV	Υ	Υ	Y	1	

From the above models, model: MTA8328-1WV was selected as representative model for the test and its data was recorded in this report.

1.3 Testing Location

Testing Location							
HWA YA ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.							
	TEL :	886-3-327-3456 FAX : 886-3-327-0973					
JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.					
	TEL :	886-3-656-9065 FAX : 886-3-656-9085					

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2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

E (V/m) =
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
5.6G;D1D	3.00	19.01	22.01	0.15885	20	0.03160	1.00000

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