

RF Exposure Report

Report No.: SA190807C14B

FCC ID: 2AUBP-5776AH

Test Model: MS-5776-A-H

Received Date: Aug. 16, 2019

Date of Evaluation: Sep. 10, 2019

Issued Date: Sep. 16, 2019

Applicant: Conexio Corporation

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA190807C14B	Original Release	Sep. 16, 2019

1 Certificate of Conformity

Product: Edge Computing Gateway

Brand: Conexio

Test Model: MS-5776-A-H

Sample Status: Mass Product

Applicant: Conexio Corporation


Date of Evaluation: Sep. 10, 2019


Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

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:** Sep. 16, 2019
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Approved by :  , **Date:** Sep. 16, 2019
Dylan Chiou / 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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

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

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**.

2.4 Antenna Gain

WWAN Antenna

	Antenna Type	Manufacturer	Model	Antenna Gain (dBi)			
				WCDMA II / LTE 2	WCDMA V	LTE 4	LTE 12
Antenna 1	Dipole Internal	INPAQ	DAM-E2-V1-N0-000-08-1	2.01	0.87	2.53	1.81
Antenna 2	LTE Main : Monopole Antenna LTE Aux : Couple Antenna	INPAQ	GNCLTEWIFI36U5W-S3-07-A	1.87	-0.1	1.44	1.79

2.5 Calculation Result of Maximum Conducted Power

<WWAN Antenna No.1>

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA II	1850-1910	25	2.01	20	0.1	1.00
WCDMA V	824-849	25	0.87	20	0.077	0.55
LTE 2	1850-1910	25.7	2.01	20	0.117	1.00
LTE 4	1710-1755	25.7	2.53	20	0.132	1.00
LTE 12	699-716	25.7	1.81	20	0.112	0.47

<WWAN Antenna No.2>

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA II	1850-1910	25	1.87	20	0.097	1.00
WCDMA V	824-849	25	-0.1	20	0.061	0.55
LTE 2	1850-1910	25.7	1.87	20	0.114	1.00
LTE 4	1710-1755	25.7	1.44	20	0.103	1.00
LTE 12	699-716	25.7	1.79	20	0.112	0.47

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Above use Max. Output Power is Max. Tune-up Power.

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