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RF EXPOSURE REPORT

Applicant: Digi International Inc

9350 Excelsior Blvd., Suite 700 Hopkins, MN 55343

Product Name: ConnectCore 8X

Brand Name: Digi

Model No.: CC8X

Model Difference: N/A

Report Number: ER/2019/B0069

FCC ID: MCQ-CCIMX8

IC: 1846A-CCIMX8

FCC Rule Part Part 2.1091

IC Rule: RSS-102 issue 5 Mar. 19, 2015

Issue Date: Jul. 10, 2020

We hereby certify that:

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).

The results of this report relate only to the sample identified in this report.

Approved By:

John Yeh / Asst. Manager





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Revision History				
Report Number	Revision	Description	Issue Date	Remark
ER/2019/B0069	Rev.00	Original.	Jul. 10, 2020	Revised By: Susan Lin

Note:

1 Disclaimer Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General:

Product Name:	ConnectCore 8X		
Brand Name:	Digi		
Model No.:	CC8X		
Model Difference:	N/A		
Hardware Version:	55001984-02 rev 4P		
Software Version:	82004286 rev 4P		
EUT Serial Number:	F191001000424		
	5Vdc from AC/DC Adapter		
Power Supply:	Adapter: Model No.: GT-46180-1605, Supplier:. GlobTek, Inc.		

1.2 Maximum Output power

The Max. output power value is derived from test report.

Bluetooth	Report Number:	ER/2019/B0065, ER/2019/B0066	
Diuelootii	Test Lab:	SGS Taiwan Ltd.	
WLAN 2.4GHz	Report Number:	ER/2019/B0064	
WLAIN 2.4GHZ	Test Lab:	SGS Taiwan Ltd.	
WLAN 5GHz	Report Number:	ER/2019/B0067	
WLAN 3GHZ	Test Lab:	SGS Taiwan Ltd.	

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1.3 Antenna Information:

1.3.1 BT / WLAN

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	MIMO Antenna Gain (dBi)	Worst Antenna Gain
PCB	YAGEO	ANTX100P001B24553	2.4GHz	4.6	7.61	V
PCB	TAOGLAS	FXP830.07.0100C	2.4GHz	3.32	6.33	
Dipole	TAOGLAS	GW.48.A151	2.4GHz	3.42	6.43	V
РСВ	TAOGLAS	FXP522.A.07.A.001	2.4GHz	3.78 (Port 1) 3.15 (Port 2)	6.79 (Port1) 6.16 (Port2)	
Dipole	Linx	ANT-DB1-RAF-RPS	2.4GHz	2.5	5.51	
PCB	ethertronic	1001932	2.4GHz	2.5	5.51	
PCB	TAOGLAS	FXP831.07.0100C	2.4GHz	3.0	6.01	

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1.3.2 **WLAN 5GHz**

	WLAN 3G					
Antenna Type	Supplier	Antenna Part No.	Frequency (MHz)	Peak Antenna Gain (dBi)	MIMO Antenna Gain (dBi)	Worst Antenna Gain
			5150~5250	4.9	7.91	
DOD	\/A OF O	ANITY/400D004D04F50	5250~5350	3.9	6.91	
PCB	YAGEO	ANTX100P001B24553	5470~5725	5.1	8.11	
			5725~5850	5.1	8.11	
			5150~5250	6.11	9.12	V
DOD	TACCLAC	EVD000 07 04000	5250~5350	6.11	9.12	V
PCB	TAOGLAS	FXP830.07.0100C	5470~5725	6.11	9.12	V
			5725~5850	6.11	9.12	V
			5150~5250	4.56	7.57	
Dinolo	TACCLAC	GW.48.A151	5250~5350	4.56	7.57	
Dipole	TAOGLAS	GW.40.A131	5470~5725	4.56	7.57	
			5725~5850	4.56	7.57	
			5150~5250	4.63 (Port 1) 4.61 (Port 2)	7.64 (Port 1) 7.62 (Port 2)	
DOD	TACCLAS	.AS FXP522.A.07.A.001	5250~5350	4.63 (Port 1) 4.61 (Port 2)	7.64 (Port 1) 7.62 (Port 2)	
PCB	TAOGLAS		5470~5725	4.63 (Port 1) 4.61 (Port 2)	7.64 (Port 1) 7.62 (Port 2)	
			5725~5850	4.63 (Port 1) 4.61 (Port 2)	7.64 (Port 1) 7.62 (Port 2)	
			5150~5250	4.6	7.61	V
Dipole	Liny	ANT DD1 DAE DDC	5250~5350	4.6	7.61	V
Dipole	LIIIX	Linx ANT-DB1-RAF-RPS		4.6	7.61	V
			5725~5850	4.6	7.61	V
			5150~5250	5	8.01	
PCB	ethertronic	1001932	5250~5350	5	8.01	
FUB		1001932	5470~5725	5	8.01	
			5725~5850	5	8.01	
			5150~5250	5.5	8.51	
DCB	TAOGLAS	FXP831.07.0100C	5250~5350	5.5	8.51	
FOB	PCB TAOGLAS	1 AF 03 1.07.0 1000	5470~5725	5.5	8.51	
			5725~5850	5.5	8.51	

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1.4 Rated Power

1.4.1 2.4GHz

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case	
BR+EDR	2402-2480	79	GFSK + π/4DQPSK + 8DPSK	10.68	4.60	15.28	V	
BLE	2402-2480	40	GFSK	1.99	4.00	6.59		
802.11b/g/n_HT20	2412-2462	11	Dece & OLDM	22.00	7.04	29.61	V	
802.11 n_HT40	2412-2452	11	DSSS & OFDM	16.11	7.61	23.72	_	
Modulation	Modulation type:		CCK, DQPSK, DBPSK for DSSS					
iviodulation	type.	64QAM, 16	64QAM, 16QAM, QPSK, BPSK for OFDM					

1.4.2 WLAN 5GHz:

Wi-Fi	Freq. Range (MHz)	Modulation Technology	Max. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
	5150~5250		11.99	9.12	21.11	
110	5250~5350		16.55	9.12	25.67	V
11a	5470~5725		16.16	9.12	25.28	
	5725~5850		16.24	9.12	25.36	
	5150~5250		12.49	9.12	21.61	
11n	5250~5350		15.56	9.12	24.68	
HT20	5470~5725		15.49	9.12	24.61	
	5725~5850	OFDM	15.22	9.12	24.34	
	5150~5250	OFDIVI	13.67	9.12	22.79	
11n	5250~5350		15.74	9.12	24.86	
HT40	5470~5725		15.81	9.12	24.93	
	5725~5850		15.48	9.12	24.60	
	5150~5250		11.01	9.12	20.13	
11ac	5250~5350		10.22	9.12	19.34	
VHT80	5470~5725		14.42	9.12	23.54	
	5725~5850		13.87	9.12	22.99	
Modulatio	n type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only				

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FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 **FCC Standard Applicable**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(minute)
	Limits for Genera	al Population/Uncon	trolled 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
1500-15000	/	1	1.0	30

f = frequency in MHz

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$

Where: S = Power density

P = Power input to 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

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^{* =} Plane-wave equipment power density



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2.2 ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissive Exposure (MPE)

RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)					
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m²)	Reference Period (minutes)	
0.003-10	83	90	•	Instantaneous*	
0.1-10	•	0.73/ f	•	6**	
1.1-10	87/ f ^{0.5}	-	ı	6**	
10-20	27.46	0.0728	2	6	
20-48	58.07/ f ^{0.25}	0.1540/ f ^{0.25}	8.944/ f ^{0.5}	6	
48-300	22.06	0.05852	1.291	6	
300-6000	3.142 <i>f</i> ^{0.3417}	$0.008335 f^{0.3417}$	$0.02619f^{0.6834}$	6	
6000-15000	61.4	0.163	10	6	
15000-150000	61.4	0.163	10	616000/ f ^{1.2}	
150000-300000	0.158 <i>f</i> ^{0.5}	4.21 x 10-4 f ^{0.5}	6.67 x 10-5 <i>f</i>	616000/ f ^{1.2}	

F = frequency in MHz

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$

Where: S = Power density

P = Power input to 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

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^{* =} Based on nerve stimulation (NS).

^{** =} Based on specific absorption rate (SAR)



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2.3 **Power Density Calculation (Worst Case)**

	FCC						
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Output Power EIRP (dBm)	Output Power EIRP (mW)	Power Density (mW/cm2)	Limit (mW/cm2)	Pass / Fail
BT	2441.00	20	15.28	33.73	0.007	1.000	Pass
WLAN 2.4G	2437.00	20	29.61	914.11	0.182	1.000	Pass
WLAN 5G	5300.00	20	25.67	368.98	0.073	1.000	Pass

ISED					
Power Density (W/m2)	Limit (W/m2)	Pass / Fail			
0.067	5.410	Pass			
1.819	5.404	Pass			
0.734	9.190	Pass			

2.4 **Collocated Power Density Calculation**

FCC

Operation Mode	PD or FS	Limit	PD or FS / Limit	Σ(PD or FS / Limit) <= 1
BT	0.007	1.00	0.007	0.189
WLAN 2.4G	0.182	1.00	0.182	

ISED

Operation Mode	PD or FS	Limit	PD or FS / Limit	Σ(PD or FS / Limit) <= 1
BT	0.067	5.41	0.012	0.349
WLAN 2.4G	1.819	5.40	0.337	

Note:

- 1. Σ(E- Field Strength / Limit): This is a summation of [(E- Field Strength for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
- 2. Considering the collocated transmitters, the aggregated (E- Field Strength /limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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