

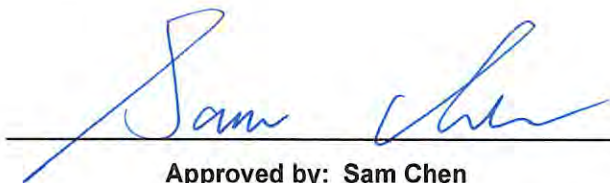


RADIO EXPOSURE TEST REPORT

FCC ID : WT8-DNWDSE641T
Equipment : 2x2 WiFi 6 Router
Brand Name : datto
Model Name : DSE641TL, DSE641T
Applicant : Datto, Inc.
101 Merritt 7 Norwalk, Connecticut 06851, United States
Standard : 47 CFR Part 2.1091

The product was received on Nov. 09, 2022, and testing was started from Nov. 09, 2022 and completed on May 03, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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Photographs of EUT v01



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A1_1 Ver1.1

Page Number : 3 of 16
Issued Date : Dec. 06, 2023
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: **Sam Chen**

Report Producer: **Cathy Chiu**



1 General Description

1.1 EUT General Information

For WLAN:

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)

For WWAN:

RF General Information				
Evaluation Mode	Band	Uplink (UL) operating band (MHz)	Downlink (DL) operating band (MHz)	Modulation Type
WCDMA	2	1850~1910	1930~1990	WCDMA: BPSK / QPSK / 16 QAM HSDPA: BPSK / QPSK / 16 QAM HSUPA: BPSK / QPSK / 16 QAM
	4	1710~1755	2110~2155	
	5	824~849	869~894	



RF General Information				
Evaluation Mode	Band	Uplink (UL) operating band (MHz)	Downlink (DL) operating band (MHz)	Modulation Type
LTE	2	1850~1910	1930~1990	QPSK/16/64QAM
	4	1710~1755	2110~2155	
	5	824~849	869~894	
	7	2500~2570	2620~2690	
	12	699~716	729~746	
	13	777~787	746~756	
	17	704~716	734~746	
	41	2496~2690	2496~2690	
	66	1710~1780	2110~2200	
	71	663~698	617~652	



1.2 Antenna Information

For WWAN(For EUT 2):

Set	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	PSA	RFDPA161500SMMB805	Dipole Antenna	SMA	Note1
	2	PSA	RFDPA161500SMMB805	Dipole Antenna	SMA	
2	1/2	Ventev	M3030050O20006	Dipole Antenna	N-Female	
3	1/2	PTY	XPOL-2-5G-US	Patch Antenna	N-Female	

Note1:

Set	Port	Antenna Gain (dBi)												
		WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 41	LTE Band 66	LTE Band 71
1	1	3.82	3.82	2.37	3.82	3.82	2.37	3.82	2.37	2.37	2.37	3.82	3.82	2.37
	2	4.66	4.66	2.81	4.66	4.66	2.81	4.66	2.81	2.81	2.81	4.66	4.66	2.81
2	1/2	5	5	3	5	5	3	5	3	3	3	5	5	3
3	1/2	10	10	9	10	10	9	10	9	9	9	10	10	9

Set	Cradlepoint to External Antenna Cable Loss (dB)												
	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 41	LTE Band 66	LTE Band 71
2	2.5												
3	2.5												

Set	Net Gain (dBi)												
	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 41	LTE Band 66	LTE Band 71
2	2.5	2.5	0.5	2.5	2.5	0.5	2.5	0.5	0.5	0.5	2.5	2.5	0.5
3	7.5	7.5	6.5	7.5	7.5	6.5	7.5	6.5	6.5	6.5	7.5	7.5	6.5

Note2: The antenna set 3 had the highest antenna gain. Thus, the antenna set 3 has been selected to test.

Note3: The above information was declared by manufacturer.

For WWAN function (1TX/2RX)

Both Port 1 and Port 2 could be used as receiving antennas.

Only Port 2 antenna can transmit RF signal.



For WLAN:

Set	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	PSA	RFDPA161500SBLB803	Dipole Antenna	Reversed-SMA	Note1
	2	PSA	RFDPA161500SBLB803	Dipole Antenna	Reversed-SMA	

Note1

For EUT 1:

Set	Port	Gain (dBi)	
		2.4GHz	5GHz
1	1	4.33	5.02
	2	5.20	4.95

For EUT 2:

Set	Port	Gain (dBi)		RF Flexible Low Loss Coaxial Cable Loss (dB)				Net Gain (dBi)			
		2.4GHz	5GHz	2.4GHz	5GHz			2.4GHz	5GHz		
					UNII 1~2A	UNII 2C	UNII 3		UNII 1~2A	UNII 2C	UNII 3
1	1	4.33	5.02	0.94	1.52	1.41	1.25	3.39	3.50	3.61	3.77
	2	5.20	4.95					4.26	3.43	3.54	3.70

Note2: The above information was declared by manufacturer.

Note3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g_{1,1}) = 10^{G_{1,1}/20} ; NSS1(g_{1,2}) = 10^{G_{1,2}/20} ;$$

$$g_{j,k} = (NSS1(g_{1,1}) + NSS1(g_{1,2}))^2$$

$$DG = 10 \log[(NSS1(g_{1,1}) + NSS1(g_{1,2}))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G_{1,1}/20} + 10^{G_{1,2}/20})^2 / N_{ANT}]$$

Where ;

EUT 1

2.4G G1= 4.33 dBi ; G2= 5.2 dBi ; Nss1 DG= 7.79dBi ; Nss2 DG=4.79 dBi

5G G1= 5.02 dBi ; G2= 4.95 dBi ; Nss1 DG= 8dBi ; Nss2 DG=4.99 dBi

EUT 2

2.4G G1= 3.39 dBi ; G2= 4.26 dBi ; Nss1 DG= 6.85dBi ; Nss2 DG=3.85dBi

5G UNII-1 G1= 3.5 dBi ; G2= 3.43 dBi ; Nss1 DG= 6.48dBi ; Nss2 DG=3.47dBi

5G UNII-2A G1= 3.5 dBi ; G2= 3.43 dBi ; Nss1 DG= 6.48dBi ; Nss2 DG=3.47dBi

5G UNII-2C G1= 3.61 dBi ; G2= 3.54 dBi ; Nss1 DG= 6.59dBi ; Nss2 DG=3.58 dBi

5G UNII-3 G1= 3.77 dBi ; G2= 3.7 dBi ; Nss1 DG= 6.75dBi ; Nss2 DG=3.74 dBi



For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

1.3 Table for Multiple Listing

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

Model Name	Description
DSE641TL	With LTE module
DSE641T	Without LTE module

Note 1: From the above models, model: DSE641TL was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.4 Table for EUT supports function

Function	Supports Band
AP Router	2.4GHz, 5GHz UNII 1~3
Mesh	2.4GHz, 5GHz UNII 1, 3

Note: The above information was declared by manufacturer.

1.5 Table for EUT Configuration Information

EUT	WLAN Function	WWAN Function	WLAN Antenna	RF Flexible Low Loss Coaxial Cable	WWAN Set 1 Antenna	WWAN Set 2 Antenna	WWAN Set 3 Antenna	Cradlepoint to External Antenna Cable	Rack
1	V	-	V	-	-	-	-	-	-
2	V	V	V	V	V	V	V	V	V

Note: The above information was declared by manufacturer.



1.6 Table for WWAN Module Information

The EUT contains a certified WWAN module.

The certified WWAN module information is listed below:

Brand Name	Model Name	FCC ID	Support Function
ALPHA	EM060K-GL-ALPHA	RRKEM060KALPHA	WCDMA band: 2,4,5 LTE band: 2,4,5,7,12,13,17,41,66,71 LTE CA band: intra CA_7C for downlink band.

Note: The above information was declared by manufacturer.

1.7 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	DC Power Line
Adapter	FSP	FSP120-AWAN3	INPUT: 100-240V~,1.8A, 50-60Hz OUTPUT: 54.0V, 2.22A, 120.0W	Non-Shielded, 1.5m
Others				
US Plug AC Power Cable*1, non-shielded, 1m				
RJ-45 Cable 1*1, non-shielded, 1.8m				
RJ-45 Cable 2*5, non-shielded, 0.5m (Only for EUT 2 use)				
USB Cable*2, Shielded, 0.45m (Only for EUT 2 use)				
Cradlepoint to External Antenna Cable*2, Shielded, 6.2m (Only for EUT 2 with WWAN ant. set 2, and 3 use)				
RF Flexible Low Loss Coaxial Cable*1 (Only for EUT 2 with WLAN ant. use)				
Rack*1 (Only for EUT 2 use)				

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2.1091
- ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ 47 CFR Part 1.1307
- ♦ 47 CFR Part 1.1310



1.9 Testing Location

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.



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/ cm ²)	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 ²)	<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/ cm ²)	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 ²)	<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

For EUT 1: The MPE was calculated at 50 cm to show compliance with the power density limit.

For EUT 2: The MPE was calculated at 49 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

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

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



2.3 MPE Exemption

Option (A): 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW

Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= P_{th}.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Option (C): 1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance

R between the person and the antenna / radiating structure, where $R > \lambda / 2 \pi$.

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.
Note: R is in meters, f is in MHz.	



2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

For WLAN:

For EUT 1:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL EIRP (dBm)	TL Ratio
2.4G;G1D	5.20	29.86	35.06	0.50	35.56	50	0.11451	1.00000	C	38.961	0.4570
5.2G;D1D	5.02	29.83	34.85	0.50	35.35	50	0.10911	1.00000	C	38.961	0.4354
5.3G;D1D	8.00	21.94	29.94	0.05	29.99	50	0.03176	1.00000	C	38.961	0.1267
5.6G;D1D	8.00	21.97	29.97	0.02	29.99	50	0.03176	1.00000	C	38.961	0.1267
5.8G;D1D	8.00	27.52	35.52	0.47	35.99	50	0.12643	1.00000	C	38.961	0.5046

For EUT 2:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL EIRP (dBm)	TL Ratio
2.4G;G1D	4.26	29.75	34.01	0.50	34.51	49	0.09363	1.00000	C	38.785	0.3736
5.2G;D1D	3.50	28.54	32.04	0.50	32.54	49	0.05948	1.00000	C	38.785	0.2374
5.3G;D1D	6.48	23.45	29.93	0.06	29.99	49	0.03307	1.00000	C	38.785	0.132
5.6G;D1D	6.59	23.34	29.93	0.06	29.99	49	0.03307	1.00000	C	38.785	0.132
5.8G;D1D	3.74	29.89	33.63	0.50	34.13	49	0.08578	1.00000	C	38.785	0.3423

**For WWAN:****For EUT 2:**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	EITP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
WCDMA Band 2	7.50	21.05	28.55	0.50	29.05	0.80353	49	0.02663	1.00000
WCDMA Band 4	7.50	21.18	28.68	0.50	29.18	0.82794	49	0.02744	1.00000
WCDMA Band 5	6.50	22.49	28.99	0.50	29.49	0.88920	49	0.02947	0.55093
LTE Band 2	7.50	22.72	30.22	0.50	30.72	1.18032	49	0.03912	1.00000
LTE Band 4	7.50	22.45	29.95	0.04	29.99	0.99770	49	0.03307	1.00000
LTE Band 5	6.50	22.24	28.74	0.50	29.24	0.83946	49	0.02782	0.55767
LTE Band 7	7.50	22.77	30.27	0.50	30.77	1.19399	49	0.03957	1.00000
LTE Band 12	6.50	22.24	28.74	0.50	29.24	0.83946	49	0.02782	0.47400
LTE Band 13	6.50	22.08	28.58	0.50	29.08	0.80910	49	0.02682	0.52133
LTE Band 17	6.50	22.19	28.69	0.50	29.19	0.82985	49	0.02750	0.47267
LTE Band 41	7.50	23.31	30.81	0.50	31.31	1.35207	49	0.04481	1.00000
LTE Band 66	7.50	22.03	29.53	0.46	29.99	0.99770	49	0.03307	1.00000
LTE Band 71	6.50	22.61	29.11	0.50	29.61	0.91411	49	0.03030	0.45200

MPE Exemption Option C								
Mode	Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
WCDMA Band 2	1852.4	0.0258	0.49	29.05	26.90	0.490	4.610	Complies
WCDMA Band 4	1752.6	0.0272		29.18	27.03	0.505	4.610	Complies
WCDMA Band 5	826.4	0.0577		29.49	27.34	0.542	2.540	Complies
LTE Band 2	1880	0.0254		30.72	28.57	0.719	4.610	Complies
LTE Band 4	1750	0.0273		29.99	27.84	0.608	4.610	Complies
LTE Band 5	836.5	0.0570		29.24	27.09	0.512	2.571	Complies
LTE Band 7	2535	0.0188		30.77	28.62	0.728	4.610	Complies
LTE Band 12	711	0.0671		29.24	27.09	0.512	2.185	Complies
LTE Band 13	784.5	0.0608		29.08	26.93	0.493	2.411	Complies
LTE Band 17	709	0.0673		29.19	27.04	0.506	2.179	Complies
LTE Band 41	2682.5	0.0178		31.31	29.16	0.824	4.610	Complies
LTE Band 66	1745	0.0273		29.99	27.84	0.608	4.610	Complies
LTE Band 71	678	0.0704		29.61	27.46	0.557	2.084	Complies

**Simultaneous Transmission Analysis Mode:****Mode 1: EUT 1+WLAN 2.4GHz+WLAN 5GHz**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm2)	Limit (mW/cm2)	Option	TL EIRP (dBm)	TL Ratio
5.8G;D1D	8.00	27.52	35.52	0.47	35.99	50	0.12643	1.00000	C	38.961	0.5046
2.4G;D1D	5.20	29.86	35.06	0.50	35.56	50	0.11451	1.00000	C	38.961	0.4570
Sum TL Ratio_C	0.9616										
Ratio Limit	1										

Mode 2: EUT 2+WLAN 2.4GHz+WLAN 5GHz+WWAN

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm2)	Limit (mW/cm2)	Option	TL EIRP (dBm)	TL Ratio
5.8G;D1D	3.74	29.89	33.63	0.50	34.13	49	0.08578	1.00000	C	38.785	0.3423
2.4G;G1D	4.26	29.75	34.01	0.50	34.51	49	0.09363	1.00000	C	38.785	0.3736
Band 71;LTE	6.5	22.61	29.11	0.50	29.61	49	0.03030	0.45200	C	35.337	0.2675
Sum TL Ratio_C	0.9834										
Ratio Limit	1										

Note: The above antenna gain was declared by manufacturer.

————THE END————