

Report No.: DDT-R21070824-2E14

■ Issued Date: Jan. 06, 2022

RF EXPOSURE REPORT

FOR

Applicant	•	Infinet LLC	
Address	:	69/75 Vavilova str., off. 425, 117997, Moscow,Russian Federation	
Equipment under Test	••	InfiMAN Evolution	
Model No.	:	E5-ST18/06000, E6-ST18/06400	
Trade Mark	••	InfiMAN Evolution	
FCC ID	•	2AZJ4-E5-ST	
Manufacturer		Infinet LLC	
Address		S.Deryabina str., 24, off. 701, 620149, Ekaterinburg, Russian Federation	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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Test Report Declare

Applicant	:	Infinet LLC			
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Equipment under Test	:	InfiMAN Evolution			
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Trade Mark	:	InfiMAN Evolution			
Manufacturer		Infinet LLC ®			
Address	-	S.Deryabina str., 24, off. 701, 620149, Ekaterinburg, Russian Federation			

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-R21070824-2E14)	(8)		
Date of Receipt:	Sep. 20, 2021	Date of Test:	Sep. 20, 2021 ~ Jan. 06, 2022		

Prepared By:

Ben Jin/Engineer

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions		Issue Date	Revised By
	Initial issue ®	6	Jan. 06, 2022	(8)
	201	201		1

1. General information

1.1. Description of Equipment

EUT* Name	:	: InfiMAN Evolution			
Model Number	:	E5-ST18/06000, E6-ST18/06400			
EUT function description	:	Please reference user manual of this device			
Power supply	:	DC 48V 0.5A from Indoor Power Supply Unit			
Radio Technology	:	Proprietary protocol based on IEEE 802.11ac			
FCC Operation frequency		20 MHz: 5745MHz-5825MHz 40 MHz: 5755MHz-5795MHz 80 MHz: 5775MHz			
Modulation	:	BPSK, QAM			
Antenna Type		Dedicated antenna 1, maximum PK gain: 18 dBi Dedicated antenna 2, maximum PK gain: 18 dBi			
Sample Type	:	Series production			
Serial Number	:	N/A ®			

Note: EUT is the ab. of equipment under test.

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

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)*	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. Calculation method

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

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

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

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

The maximum power declared by the manufacturer (dBm)	MIMO Output power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm²)	MPE Limit (mW/cm²)
16	39.81	18	63.10	0.5	1

Note: The estimation distance is 20 cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

END OF REPORT