

TEST REPORT

Product Name	:	DataHub
Model Number	:	DataHub1000

Prepared for Address	:	SolaX Power Network Technology (Zhejiang) Co., Ltd. No.288,Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province 310000,P. R. CHINA
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Report Number	:	ENS2111250113W01903R
Date(s) of Tests	:	November 25, 2021 to January 22, 2022
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TABLE OF CONTENTS

1.	TEST RESULT CERTIFICATION	.3
2.	EUT DESCRIPTION	.4
3.	FACILITIES AND ACCREDITATIONS	.6
	3.1 FACILITIES 3.2 EQUIPMENT	.6
1	3.3 LABORATORY ACCREDITATIONS AND LISTINGS	-
	4.1 Basic RestrictioN	.7
	4.2 EVALUATION ROUTINE	.8
5.	TEST RESULT	.9
	5.1 DETAILED RESULTS	.9



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1. TEST RESULT CERTIFICATION

Applicant	:	SolaX Power Network Technology (Zhejiang) Co., Ltd.
Address	:	No.288,Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province 310000,P. R. CHINA
Manufacturer	:	SolaX Power Network Technology (Zhejiang) Co., Ltd.
Address	:	No.288,Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province 310000,P. R. CHINA
EUT	:	DataHub
Model Name	:	DataHub1000
Trademark	:	SolaX Power

Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD	TEST RESULT	
EN IEC 62311:2020	PASS	

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the EN IEC 62311:2020 requirements. The test results are contained in this report and EMTEK (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test :	November 25, 2021 to January 22, 2022
Prepared by :	Trany Hu
	Tracy Hu /Editor
Reviewer :	Mill Cher
Approved & Authorized Signer :	Lisa Wang/Manager

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2. EUT DESCRIPTION

Product:	DataHub	
Model Number:	DataHub1000	
Sample Number:	1#	
WLAN Supported:	⊠802.11b ⊠802.11g ⊠802.11n(20MHz channel bandwidth) ⊡802.11n(40MHz channel bandwidth)	
Modulation:	OFDM with BPSK/DQPSK/CCK for 802.11b	
Frequency Range:	⊠2412-2472MHz for 802.11b/g/n(HT20) □2422-2462MHz for 802.11n(HT40)	
Number of Channels:	☐13 Channels for 802.11b/g/n(HT20) ☐9 Channels for 802.11n(HT40)	
Max Transmit Power:	18.68 dBm	
Antenna:	External antenna	
Antenna Gain:	5.0 dBi,	
Test Voltage:	AC230V, 50Hz	
AC Adapter:	M/N: ABT020120D Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 12V, 2A, 24W	
Date of Received:	November 25, 2021	
Temperature Range:	-20℃~+60℃	

Note: for more details, please refer to the User's manual of the EUT.

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Modified Information

Version	Report No.	Revision Date	Summary
/	ENS2111250113W01903R	/	Original Report



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3. FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at EMTEK (SHENZHEN) C0., LTD.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 32.

3.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

3.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description EMC Lab.	 Accredited by CNAS The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017) Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943
	Accredited by A2LA The Certificate Number is 4321.01.
	Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008
Name of Firm Site Location	 EMTEK (SHENZHEN) CO., LTD. Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

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4. GENERAL PRODUCT INFORMATION

4.1 BASIC RESTRICTION

Reference Levels

Council Recommendation 99/519/EC Annex III Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m2)
0-1 Hz	-	3.2×10 ⁴	4×10 ⁴	-
1-8 Hz	10000	3.2×10 ⁴ /f ²	4×10 ⁴ /f ²	-
8-25 Hz	10000	4000/f	5000/f	-
0.025-0.8 kHz	250/f	4/f	5/f	-
0.8-3 kHz	250/f	5	6.25	-
3-150 kHz	87	5	6.25	-
0.15-1 MHz	87	0.73/f	0.92/f	-
1-10 MHz	87/f ^{1/2}	0.73/f	0.92/f	-
10-400 MHz	28	0.073	0.095	2
400-2000 MHz	1.375 f ^{1/2}	0.0037 f ^{1/2}	0.0046 f ^{1/2}	f/200
2-300 GHz	61	0.16	0.2	10

Notes:

- 1. As indicated in the frequency range column.
- 2. For frequencies between 100kHz and 10 GHz, Seq, E2, H2 and B2 are to averaged over any six-minute period.
- 3. For frequencies exceeding 10 GHz, Seq, E2, H2, and B2 are averaged over any 68/1.05-minute period(in GHz).
- 4. No E-field value is provided for frequencies<1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided.

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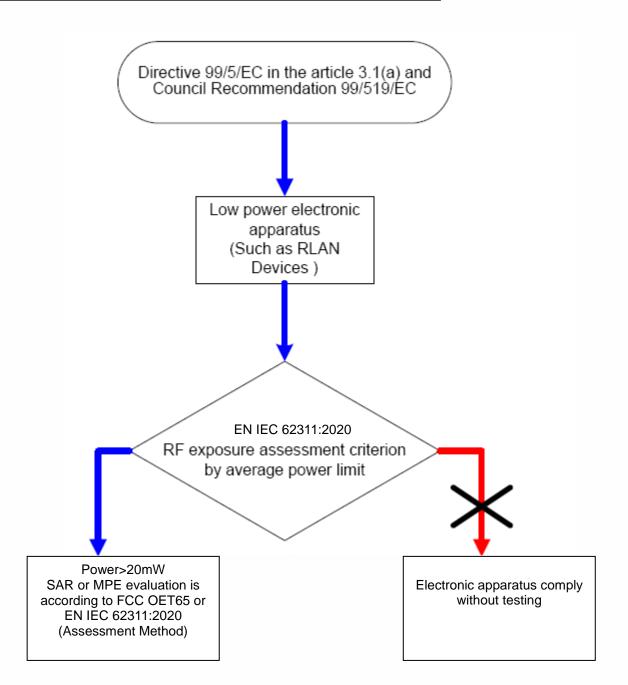
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4.2 EVALUATION ROUTINE

Low Power Electronic Apparatus for RF exposure evaluation routine



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5. TEST RESULT

5.1 DETAILED RESULTS

5.1.1 Measurement of RF conducted Power

	Band
WiFi	2.4G

EIRP Power 18.68 dBm

- 5.1.2 MPE Evaluation
 - $S = EIRP/4\pi R^2$
 - R = distance to the center of radiation of antenna (in meter) = 0.20 m

Note:

- 1) EIRP=P*G* Duty factor
- 2) P (Watts) = (10 ^ (dBm /10))/1000
- 3) G (Antenna gain in numeric) = 10[^] (Antenna gain in dBi /10)
- 4) Duty factor
- 5) **∏**=3.142

Mode	

Duty factor

5.1.3 Summary of Results

The maximum power density at a distance of 0.2 m for WIFI is shown as below:

Mode	EIRP Power (dBm)	EIRP Power (W)	Duty factor	Calculated RF Exposure (W/ m²)	Limit (W/ m²)
WIFI 2.4GHz	18.68	0.07379	1	0.1468	10

5.1.4 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

*** End of Report ***

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