

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

Prepared by Address

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Report No. ENB2111250113W00902R Page 1 of 9 Ver.1.0



TABLE OF CONTENT

1.	TEST RESULT CERTIFICATION	3
2.	EUT DESCRIPTION	4
3.	FACILITIES AND ACCREDITATIONS	6
	3.1 FACILITIES	6
	3.2 EQUIPMENT	
	3.3 LABORATORY ACCREDITATIONS AND LISTINGS	6
4.	GENERAL PRODUCT INFORMATION	7
	4.1 Product Function and Intended Use	7
	4.2 Ratings and System Details	7
5	TEST RESULT	



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

Test Procedure Used:

Radio communications (Electromagnetic Radiation-Human Exposure) Standard -2014 AS/NZS 2772.2:2016 standard: Part 2: Principles and methods of measurement and computation—3 kHz to 300 GHz

ARPANSA standard: radiation protection standard for Maximum Exposure Levels to Radiofrequency Fields —3 kHz to 300 GHz

The device described above is tested by EMTEK (NINGBO) 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 Radio communications Standard 2014 and the ARPANSA standard requirements. The test results are contained in this report and EMTEK (NINGBO) 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 (NINGBO) CO., LTD.

Date of Test:	November 25, 2021 to January 22, 2022
Prepared by :	June Gao
	June Gao /Editor
Reviewer :	Vinay/Supervisor
Approve & Authorized Signer :	Tony Wei/Manager

Report No. ENB2111250113W00902R



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:	DSSS with DBPSK/DQPSK/CCK for 802.11b OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n		
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°C~+60°C		



Modified History

Version	Summary	Date of Rev.	Report No.		
/	Original Report	/	ENB2111250113W00902R		





3. FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, 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 L6666.

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1302

Test Firm Registration Number: 436491

Accredited by A2LA

The certificate is valid until May 31, 2023

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0114

Name of Firm : EMTEK (NINGBO) CO., LTD.

Site Location : 1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo,

Zhejiang, China.

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Report No. ENB2111250113W00902R Page 6 of 9 Ver. 1.0



4. GENERAL PRODUCT INFORMATION

4.1 Product Function and Intended Use

The submitted sample is wireless transceiver includes transmitter and receiver.

4.2 Ratings and System Details

Operating Mode(s) & Operating Frequency Range(s):	□2412-2472MHz for 802.11b/g/n(HT20) □2422-2462MHz for 802.11n(HT40)		
Test Modulation:	☑DSSS with DBPSK/DQPSK/CCK for 802.11b ☑OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n		
Transmit Power EIRP (MAX):	18.68 dBm		
Power supply:	AC 230V, 50Hz		
Type of Antenna:	External antenna		
Antenna Gain:	5.0 dBi		

Report No. ENB2111250113W00902R Page 7 of 9



5. TEST RESULT

5.2 MPE Evaluation

S =PG* Duty factor / $4\pi R^2$

P = AV Power Input to antenna (Watts)

G =Antenna Gain (numeric)

R = distance to the center of radiation of antenna (in meter) = 0.20 m

Note:

- 1) P (Watts)=(10 ^ (dBm /10))/1000
- 2) G (Antenna gain in numeric) = 10^A (Antenna gain in dBi /10)
- 3) Duty factor

Mode	Duty factor
TX	0.99

4) π =3.142

5.3 Measurement of RF conducted Power

Mode AV Power TX 18.68 dBm

5.4 Summary of Results

The maximum power density at a distance of 0.5 m for EUT is shown as below:

WIFI

Antenna Gain(dBi)	Antenna Gain (numeric)	AV Output Power (dBm)	AV Output Power (W)	Duty factor	Calculated RF Exposure (W/m²)	Limit (W/ m²)
5.0	3.16	18.68	0.07379	0.99	0.4638	10

5.5 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

*** End of Report ***

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Report No. ENB2111250113W00902R Page 8 of 9 Ver.1.0



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Report No. ENB2111250113W00902R