

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	:	ENB2111250113W00902R
Date(s) of Tests	:	November 25, 2021 to January 22, 2022
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EMTEK(Ningbo) Co., Ltd.

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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

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 :	V Zuny t NINGBO
	Vinay /Supervisor
Approve & Authorized Signer :	Tory We *
	Tony Wei/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:	⊠DSSS with DBPSK/DQPSK/CCK for 802.11b ⊠OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n		
Frequency Range:	Z2412-2472MHz 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	



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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 Site Location	 : EMTEK (NINGBO) CO., LTD. : 1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China.

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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	

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5. TEST RESULT

5.2 MPE Evaluation

S =PG* Duty factor / 4πR² 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^ (Antenna gain in dBi /10) 3) Duty factor

Mode

ТΧ

Duty factor

0.99

4) π=3.142

5.3 Measurement of RF conducted Power

Mode TX AV Power 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:

V	v	I	F	I
v	v	I		L

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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