

**TCB**

**GRANT OF EQUIPMENT  
AUTHORIZATION**

**TCB**

**Certification**

**Issued Under the Authority of the  
Federal Communications Commission**

**By:**

**EMCC Dr. Rasek  
Moggast  
D-91320 Ebermannstadt,  
Germany**

**Date of Grant: 08/19/2005  
Application Dated: 08/19/2005**

**Sena Technologies, Inc.  
210 Yangjae-dong Seocho-gu  
Seoul, 137-130  
South Korea**

**Attention: YOUNGSAM KIM , Vice President**

**NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

**FCC IDENTIFIER: S7ALS100W**  
**Name of Grantee: Sena Technologies, Inc.**  
**Equipment Class: Digital Transmission System**  
**Notes: Wireless serial device server (AP)**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	2412.0 - 2462.0	0.021		

Power output listed is peak conducted. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

# TEST REPORT

FCC RULES :Part 15 Subpart B Subpart C

**FCC ID : S7ALS100W**

Report File No. : STOR-05-041  
Date of Issue : Aug. 10, 2005  
Kind of Product : Wireless serial device server(AP)  
Model Name : LS100W  
Manufacturer : SENA Technologies Inc.  
Serial No. :           -  
Test Result : Complied

The results shown in this report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of company.

## VERIFICATION OF COMPLIANCE

Applicant : SENA Technologies Inc.  
 Kind of Product : Wireless serial device server(AP)  
 Brand Name : HelloDevice  
 Model Name : LS100W  
 Model Difference : -  
 Report File No. : STROR-05-0041  
 Date of test : Jul. 29, 2005 ~ Aug. 10, 2005  
 Receiver EUT : -

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
Part 15 Subpart B, Subpart C	Complied

The above equipment was tested by SGS Testing Korea Co., Ltd. for compliance with the requirements set forth in the FCC RULES Part 15 Subpart B, Subpart C. The results of testing in this report apply to the product system that was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

*Tested By:*



*Date*

**Aug. 10, 2005**

*Feel Jeong*

*Approved By*



*Date*

**Aug. 10, 2005**

*Albert Lim*

Designated by the German Regulator



to act as a Notified Body in accordance with the R&TTE Directive 1999/5/EC of 9. March 1999

## EC-R&TTE CERTIFICATE

Registration No. G102486T

Certificate Holder SENA Technologies Inc.  
 210 Yanggjae-dong Seocho-gu  
 Seoul, 137-130  
 South Korea

Product Designation Wireless serial device server (AP), Model LS100W

Product Description Wideband transmission system in the 2.4 GHz ISM band

Manufacturer SENA Technologies Inc.  
 210 Yanggjae-dong Seocho-gu  
 Seoul, 137-130  
 South Korea

Essential Requirement		Applied Specifications / Standards	Documentary Evidence	Result
Art. 3.1(a)	Health	EN 50371	Declaration of Conformity	conform
Art. 3.1(a)	Safety	EN 60950	Test Report STS-05-0118 S R LV	conform
Art. 3.1(b)	EMC	EN 301 489-1/-17	Test Report STK-05-EMCG0006	conform
Art. 3.2	Radio	EN 300 328	Test Report STROR-05-040	conform

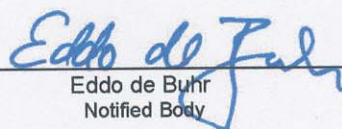
The product shall be marked with the CE conformity marking and our Notified Body number as shown on the right.

**CE 0678**

The scope of evaluation relates to the submitted documents only.

This Certificate is issued in accordance with Annex IV of the R&TTE Directive 1999/5/EC of 9<sup>th</sup> March, 1999 and is only valid in conjunction with the attached Annex.

Ebermannstadt,  
 2005-08-17

  
 Eddo de Buhr  
 Notified Body



### VERIFICATION OF COMPLIANCE

**Applicant :** SENA Technologies Inc.  
**Kind of Product :** Wireless serial device server(Access Point)  
**Brand Name :** HelloDevice  
**Model Name :** LS100W  
**Report File No. :** STROR-05-040  
**Date of test :** 2005-08-01  
**Receiver EUT :** -

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
ETSI 300 328 V1.4.1	Complied

The above equipment was tested by SGS Testing Korea Co., Ltd. for compliance with the requirements set forth in the European Standard ETSI 300 328 V1.4.1. The results of testing in this report apply to the product system that was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Tested By:**



**Date**

2005-08-10

*Leo Kim*

**Approved By**



**Date**

2005-08-10

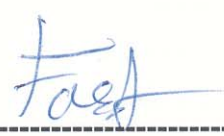

*Albert Lim*

# EMC TEST REPORT

**Reference No.** : STS-05-0118/R/E/S  
**Applicant** : SENA Technologies Inc.  
**Equipment Under Test (EUT) :**  
 Product Name : Wireless serial device server  
 Model No. : LS100W  
 Brand Name : Hello Device  
**Standards** : ETSI EN 301 489-1 V1.6.1: 2003  
 ETSI EN 301 489-17 V1.2.1: 2002  
**Date of Receipt** : 18 July 2005  
**Date of Test** : 19 July 2005 to 25 July 2005  
**Date of Issue** : 28 July 2005

<b>Test Result</b>	<b>PASS</b>
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In the configuration tested the EUT complied with the standards specified above.

<p><b>Checked Signatory</b> :          (SGS Testing Korea Co., Ltd.)</p> <p><b>Approved Signatory</b> :          (SGS Testing Korea Co., Ltd.)</p>	 ----- <b>Forest Lee</b>   ----- <b>Albert Lim</b>
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**Remarks :**  
 This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.  
 This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS international Electrical Approvals in writing.

**TEST REPORT**

**EN 60950-1**

**Information technology equipment – Safety –  
Part 1: General requirements**

**Report reference No** .....: STS-05-0118 S R LV

Tested by  
(printed name and signature) .....: Zion Choi (Test Engineer)



Approved by  
(printed name and signature) .....: Tony Woo (Lab. Section Chief)



Date of issue .....: July 27, 2005

**Testing Laboratory Name** .....: SGS Testing Korea Co., Ltd. Electrical Safety Laboratory

Address .....: 18-34, Sanbon-dong, Gunpo-si, Kyongki-do, Korea

Testing location .....: As above

Address .....: As above

**Applicant's Name** .....: SENA Technologies Inc.

Address .....: 210, Yangjae-Dong, Seocho-Gu, Seoul 137-130, Korea

**Test specification**

Standard .....: EN 60950-1:2001

Test procedure .....: -

Procedure deviation .....: N.A

Non-standard test method .....: N.A

Number of pages (Report) .....: 26 pages

**Test Report Form No** .....: IECEN60950\_1B

TRF originator .....: SGS Fimko Ltd

Master TRF .....: dated 2003-03

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**Test item description** .....: Wireless serial device server

Trademark / Brand Name .....: HelloDevice

Manufacturer's Name .....: Same as Applicant

Model and/or type reference .....: LS100W

Serial number .....: N/A

Rating(s) .....: 9 - 30 Vd.c., 300 mA