

**Notified Body
Number 1177**



NOTIFIED BODY STATEMENT OF OPINION
R&TTE DIRECTIVE 1999/5/EC
Conformity assessment procedure Article 10(4) and Annex IV

PRODUCT DESCRIPTION

Manufacturer Name	:	Sena Technologies, Inc.
Manufacturer Address	:	210 Yangjae-dong, Seocho-gu Seoul 137-130 Korea
Brand/Trade Name	:	SENA/ Bluetooth USB Adapter
Model/Type Designation	:	Parani-UD100
Product Description	:	Bluetooth
Product Specifications	:	See ANNEX 1

TECHNICAL CONSTRUCTION FILE

Applicant Name	:	Sena Technologies, Inc.
Applicant Address	:	210 Yangjae-dong, Seocho-gu Seoul 137-130 Korea
Signed by	:	Seung-Hyun Kim/ Associate Research Engineer
Date	:	2009-01-07
TCF Identification	:	RTTE-S0901B

TIMCO NOTIFIED BODY STATEMENT OF OPINION

Issued by	:	Notified Body 1177, TIMCO Engineering, Inc.
Date	:	January 12, 2009
Opinion number	:	TCF-77KC9
On behalf of	:	The President of TIMCO Engineering, Inc.
Signature	:	
Name	:	Bruno Clavier

The device shall be marked as follows:



THIS STATEMENT OF OPINION HAS 1 ANNEX.

Based on the evidence presented in the Technical Construction File, TIMCO Engineering, Inc., as appointed Notified Body (number 1177), has given a positive opinion that the product described is in conformity with the essential requirements Article 3.2 of R&TTE Directive 1999/5/EC.

TIMCO ENGINEERING, INC. P. O. BOX 370 NEWBERRY, FL 32669 Tel.: 1-888-472-2424 Fax: 1-352-472-2030 E-mail: TEI@TIMCOengr.com	Designated as a U.S. CAB by NIST National Institute of Standards and Technology An agency of the U.S. Commerce Department	This Opinion is issued under the provision that TIMCO Engineering Inc. nor its subsidiary companies accept any liability concerning the contents of this document other than forced by law. Reproduction of the Opinion (with Annex) in full is allowed. Reproduction of parts of this certificate may only be allowed by written permission of TIMCO Engineering, Inc.
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ANNEX 1 TO STATEMENT OF OPINION

TCF-77KC9

Date: January 12, 2009

PRODUCT SPECIFICATIONS

Intended Use/Category	:	SRD – Wideband data transmission system (Bluetooth)
RF output power	:	19.71dBm EIRP
Frequency band (MHz)	:	2402-2480
Modulation	:	FHSS (GFSK, DQPSK, 8DPSK)
Antenna type	:	External antenna with Max. 5.37 dBi gain
Duty cycle (%)	:	78 %

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

Timco Engineering, Inc.
849 NW State Road 45
P.O. Box 370,
Newberry, FL 32669

Date of Grant: 02/03/2009
Application Dated: 02/02/2009

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

Attention: YOUNGSAM KIM , Vice President

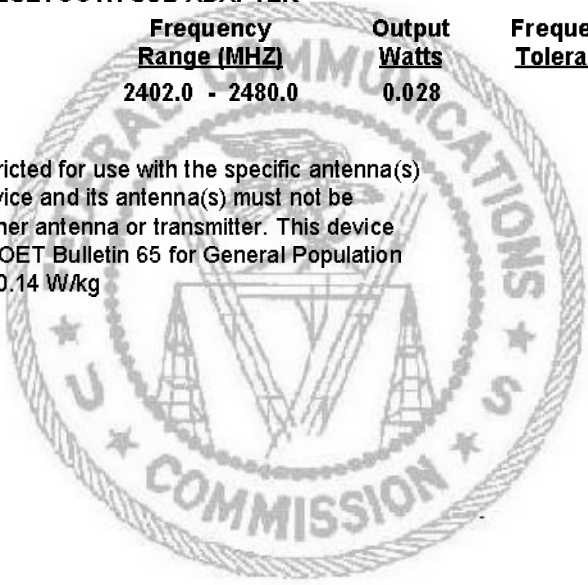
NOT TRANSFERABLE

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: S7APARANIUD100
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: BLUETOOTH USB ADAPTER

<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	2402.0 - 2480.0	0.028		

Power listed is conducted. This transmitter is restricted for use with the specific antenna(s) tested in this application for Certification. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. This device was tested for SAR evaluation and complies with OET Bulletin 65 for General Population use. The highest reported SAR levels are: Body: 0.14 W/kg





방송통신기기인증서
Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	형식등록(Type Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	(주)세나테크놀로지
기기의 명칭 <i>Equipment Name</i>	무선데이터통신시스템용 무선기기
기본모델명 <i>Basic Model Number</i>	Parani-UD100
파생모델명 <i>Series Model Number</i>	
인증번호 <i>Certification No</i>	SNA-Parani-UD100
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	(주)세나테크놀로지/한국
형식기호 <i>Type Identification</i>	LARN8-IO2S2402/2480TR0.0005F1DG1D79
인증연월일 <i>Date of Certification</i>	2009년(Year) 01월(Month) 02일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 01월(Month) 02일(Date)

전파연구소장



Director General of Radio Research Laboratory
Korea Communications Commission Republic of Korea





<방송통신기기 인증표시 부착 의무사항 안내>

인증을 받은 모든 기기는 “전파법” 및 “전기통신기본법”에 따라 인증표시를 부착하여 유통하여야 합니다. 인증표시를 부착하지 않을 경우 “전파법 제90조” 및 “전기통신기본법 제53조”에 의거 과태료 처분 대상이 되오니, 자세한 안내 내용을 확인하시고 인증표시 부착의무를 반드시 준수해 주시기 바랍니다.



Certificate of construction type

Applicant	Sena Technologies, Inc.
Type of specified radio equipment	Technical Regulations for Specified Radio Equipmen Article 2, Section 1 (19)
Types of radio wave, Frequency and Antenna power	F1D 2402 - 2480MHz (1MHz ch. separation 79 waves), 0.0005W/MHz G1D 2402 - 2480MHz (1MHz ch. separation 79 waves), 0.0001W/MHz
Model or Product name	Parani-UD100
The number of construction design certificate	010WWBT0008
Date of certified	16th January 2009
Remark	

This radio equipment is accredited in accordance with the Japanese Radio Law Article 38, Section 24 (1)

TÜV SÜD Ohtama, Ltd.



平成 21 年 1 月 16 日

Sena Technologies, Inc. 殿

工 事 設 計 認 証 書

特 定 無 線 設 備 の 種 別	証明規則第2条第1項第 19 号の無線設備
電波の型式、周波数及び空中線電力	F1D 2402~2480MHz (1MHz 間隔 79 波) 0.0005W/MHz G1D 2402~2480MHz (1MHz 間隔 79 波) 0.0001 W/MHz
型 式 又 は 名 称	Parani-UD100
認 証 番 号	010WWBT0008
認 証 を し た 年 月 日	平成 21 年 1 月 16 日
備 考	

上記のとおり、電波法第38条の24第1項の規定に基づく工事設計認証を行ったものであることを証する。

テュフズードオータマ株式会社



TIMCO ENGINEERING INC.

849 NW State Road 45
Newberry, Florida 32669
<http://www.timcoengr.com>
888.472.2424 F 352.472.2030 email: tei@timcoengr.com

NOVEMBER 10, 2009

Our File: 2696IC9
Radio Cert. No.: IC: 8154A-PARANIUD100

SENA TECHNOLOGIES, INC.
210 YANGJAE-DONG
SEOCHO-GU
SEOUL, 137-130
SOUTH KOREA

Attention: SEUNG-HYUN KIM

Dear Sir/Madame:

I have reviewed the test report and related documents, and am pleased to advise that this device meets our procedural and specification requirements for certification. The field offices have been notified.

The assigned certification number and the model number must be shown on each equipment model. This certification identification information may be shown on the equipment model identification plate or on a separate label that shall be indelible and tamper proof. The certification number shall be prefixed with the letters "IC:." Radio equipment is certified as described on the attached certification certificate.

Certificate(s) are attached for the following model(s):
PARANI-UD100

Please check the certification & the REL web site to insure that everything is correct.
A website has been established which includes the status of applications.
The address is <http://strategis.ic.gc.ca/app/sitt/reltel/search/newRadioSearch.do?language=eng>

Sincerely,

Timco Engineering Inc.

Canadian Certification

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TIMCO ENGINEERING INC.

849 NW State Road 45
Newberry, Florida 32669
<http://www.timcoengr.com>
888.472.2424 F 352.472.2030 email: tei@timcoengr.com

No. ➤ 2696IC9

TECHNICAL ACCEPTANCE CERTIFICATE

CERTIFICAT D' ACCEPTABILITÉ TECHNIQUE

CERTIFICATION No.
No. DE CERTIFICATION

➤ IC: 8154A-PARANIUD100

ISSUED TO
DÉLIVRÉ A ➤ SENA TECHNOLOGIES, INC.
210 YANGJAE-DONG
SEOCHO-GU
SEOUL, 137-130
SOUTH KOREA

TESTED BY
TESTÉ A ➤ LTA CO., LTD.
Company No: 5799
243, JUBUG-RI, YANGJI-MYEON
YONGIN-SI, GYEONGGI-DO
, 449-822
SOUTH KOREA
+82-31-323-6008; +82-31-323-6010
klee@lta.com; chahn@lta.com

TYPE OF EQUIPMENT
GENRE DE MATÉRIEL

➤ BLUETOOTH USB ADAPTOR

TRADENAME AND MODEL
MARQUE ET MODELE

➤ PARANI-UD100

FREQUENCY RANGE BANDE DE FRÉQUENCES	EMISSION TYPE GENRE D'ÉMISSION	R.F. POWER PUISSANCE H.F.	ANTENNA INFO INFO SUR L'ANTENNE	SPECIFICATION/ ISSUE & DATE SPÉCIFICATION/ ÉDITION & DATE
2402-2480 MHz	915KF1D	0.028 W	Helical Antenna, 5.02dBi	RSS-210 Issue 7, JUNE 07
2402-2480 MHz	1M165KG1D	0.005 W	Helical Antenna, 5.02dBi	RSS-210 Issue 7, JUNE 07

Note: This equipment also complies with RSS-102, Issue 2 (November 2005) and RSS-Gen, Issue 2 (June 2007)

Certification of equipment means only that the equipment has met the requirements of the above noted specifications. License applications, where applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by Industry Canada.

Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'Industrie Canada.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
DÉLIVRÉ AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIES

DATE: NOVEMBER 10, 2009



S. S. Sanders, President

Canadian Certification

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