

방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 형식등록(Type Registration)
Certification Type

상호 또는 성명 (주)세나테크놀로지
Trade Name or Applicant

기기의 명칭 무선데이터통신시스템용 무선기기
Equipment Name

기본모델명 Parani-SD1000
Basic Model Number

파생모델명
Series Model Number

인증번호 SNA-Parani-SD1000
Certification No

제조사/ 제조국가 (주)세나테크놀로지/한국
Manufacturer/Country of Origin

형식기호 LARN8-IO2S2402/2480TR0.0004F1DG1D79
Type Identification

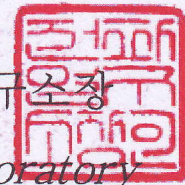
인증연월일 2008년(Year) 06월(Month) 20일(Date)
Date of Certification

기타
Others

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.

2008년(Year) 06월(Month) 20일(Date)

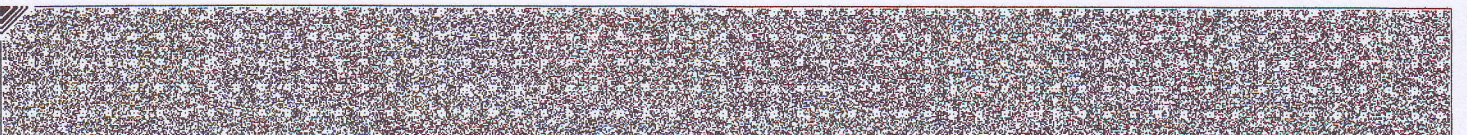
전파연구소장



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

* 진위여부는 www.ekcc.go.kr에서 확인할 수 있습니다.

* 복사본은 상단 복사방지마크의 '원' 또는 '본' 글자가 사라집니다.





ANNEX 1 TO STATEMENT OF OPINION

TCF-2421KC10

Date: October 13, 2010

PRODUCT SPECIFICATIONS

Intended Use/Category	:	SRD – Wideband data transmission system (Bluetooth)
RF output power	:	19.52dBm EIRP
Frequency band (MHz)	:	2402-2480
Modulation	:	FHSS (GFSK, Pi/4 DQPSK, 8DPSK)
Antenna type	:	Integral
Duty cycle (%)	:	--

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: 10/12/2010
Application Dated: 10/11/2010**

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

Attention: YOUNGSAM KIM , Vice President

NOT TRANSFERABLE

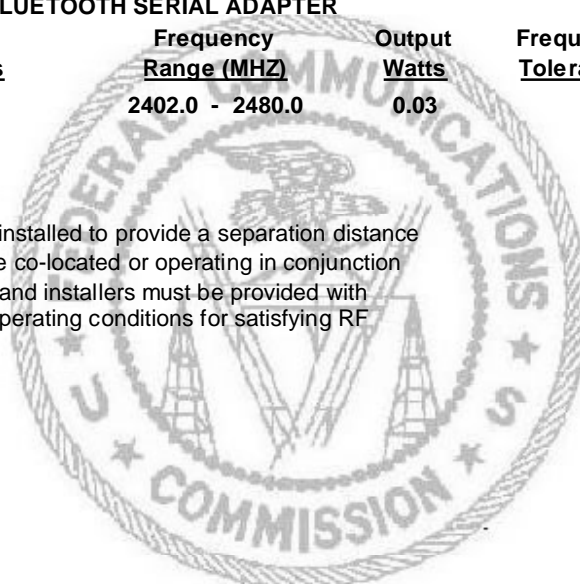
EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: S7APARANISD1000A
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: BLUETOOTH SERIAL 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	0.03		

Power listed is 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.



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 1, 2010

Our File: 2388IC10
Radio Cert. No.: IC: 8154A-SD1000A

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-SD1000A

Please check the certification & advise if it is correct, if not please advise us immediately at tei@timcoengr.com. Once we receive your advice that the CERTIFICATION is correct your product will be listed on the REL within 2 days, please check to insure that everything is correct. 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. > 2388IC10

TECHNICAL ACCEPTANCE CERTIFICATE

CERTIFICAT D' ACCEPTABILITÉ TECHNIQUE

CERTIFICATION No.
No. DE CERTIFICATION

➤ IC: 8154A-SD1000A

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 SERIAL ADAPTOR

TRADENAME AND MODEL
MARQUE ET MODELE

➤ Parani-SD1000A

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	903KF1D	0.0305 W	NOTE 1	RSS-210 Issue 7, JUNE 07
2402-2480 MHz	1M17G1D	0.0036 W	NOTE 1	RSS-210 Issue 7, JUNE 07

Note: This equipment also complies with RSS-102, Issue 4 (March 2010) and RSS-Gen, Issue 2 (June 2007)

NOTE 1:

Patch Antenna (M/N: HIF-2400) Max Gain 8.92 dBi
Dipole Antenna (M/N: R-AN2400-1901RS) Max Gain 5.37 dBi
Dipole Antenna (M/N: R-AN2400-5801RS) Max Gain 3.27 dBi
Dipole Antenna (M/N: AN2400-3306RS) Max Gain 1.40 dBi

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 1, 2010



S. S. Sanders, President

Canadian Certification

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平成22年10月15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) 0.001~0.0015W/MHz G1D 2402~2480MHz (1MHz 間隔 79 波) 0.0001~0.0002W/MHz
型式又は名称	Parani-SD1000A
認証番号	010WWBT0061
認証をした年月日	平成22年10月15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



Certificate of construction type

Applicant	Sena Technologies, Inc.
Type of specified radio equipment	Technical Regulations for Specified Radio Equipment Article 2,Section 1 (19)
Types of radio wave, Frequency and Antenna power	F1D 2402-2480MHz (1MHz steps 79ch) 0.001-0.0015W/MHz, G1D 2402-2480MHz (1MHz steps 79ch) 0.0001~0.0002W/MHz
Model or Product name	Parani-SD1000A
The number of construction design certificate	010WWBT0061
Date of certified	15 th October 2010
Remark	

This radio equipment is accredited in accordance with the Japanese Radio Law Article38, Section 24 (1)

TÜV SÜD Ohtama, Ltd.

