



NOTIFIED BODY STATEMENT OF OPINION

R&TTE DIRECTIVE 1999/5/EC

Conformity assessment procedure Article 10(4) and Annex IV

PRODUCT DESCRIPTION

| TRODUCT DESCRIPTION | |
|--------------------------|---|
| Manufacturer Name : | SENA TECHNOLOGIES, INC. |
| Manufacturer Address : | 210 YANGJAE-DONG SEOCHO-GU SEOUL, 137-130 KOREA |
| Brand/Trade Name : | SENA |
| Model/Type Designation: | PARANI-SD1100 |
| Product Description : | BLUETOOTH 422/485 ADAPTOR |
| Product Specifications : | Please refer to 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 | 2010-05-12 | | | | | |
| TCF Identification | RTTE-S1005A | | | | | |

TIMCO NOTIFIED BODY STATEMENT OF OPINION

| Issued by | Notified Body 1177, TIMCO Engineering, Inc. | | | | | | |
|----------------|---|--|--|--|--|--|--|
| Date | May 14, 2010 | | | | | | |
| Opinion number | TCF-1105KC10 | | | | | | |
| On behalf of | The President of TIMCO Engineering, Inc. | | | | | | |
| Signature | Brus Claver | | | | | | |
| Name | Bruno Clavier | | | | | | |

The device shall be marked as follows:

C€1177①

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.

| TIMEO ENGINEERING, INC. | TIMCO | ENGINEERING, INC | |
|-------------------------|-------|------------------|--|
|-------------------------|-------|------------------|--|

P.O. BOX 370 NEWBERRY, FL 32669

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An agency of the U.S. Commerce Department

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Date: May 14, 2010

PRODUCT SPECIFICATIONS

| Intended Use/Category | | SRD – Wideband data transmission system (Bluetooth) | | | | | |
|---------------------------------|--|--|--|--|--|--|--|
| RF output power : 19.23dBm EIRP | | | | | | | |
| Frequency band (MHz) | | 2402-2480 | | | | | |
| Modulation | | FHSS (GFSK, DQPSK, 8DPSK) | | | | | |
| Antenna type | | Dipole Antenna (M/N: R-AN2400-1901RS) Max Gain 5.37dBi | | | | | |
| | | Dipole Antenna (M/N: R-AN2400-5801RS) Max Gain 3.17dBi | | | | | |
| | | Stub Antenna (M/N: AN2400-3306RS) Max Gain 1.4dBi | | | | | |
| Duty cycle (%) | | 81.14 | | | | | |

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: 05/18/2010

Application Dated: 05/14/2010

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: S7APARANISD1100
Name of Grantee: Sena Technologies, Inc.

Equipment Class: Part 15 Spread Spectrum Transmitter Notes: BLUETOOTH 422/485 ADAPTOR

Frequency Output Frequency Emission

Grant Notes FCC Rule Parts Range (MHZ) Watts Tolerance Designator

15C 2402.0 - 2480.0 0.0

Power listed is conducted. The antenna installation and operating configurations of this transmitter, including any applicable antenna gain and cable loss must satisfy MPE categorical Exclusion Requirements of §2.1091. 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 operated in conjunction with any other antenna or transmitter. Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

| 인증의 종류 Certification Type | 형식등록(Type Registration) | | | | |
|--|-------------------------------------|--|--|--|--|
| 상호 또는 성명 Trade Name or Applicant | (주)세나테크놀로지 | | | | |
| 기기의 명칭 Equipment Name | 특정소출력무선기기(무선데이터통신시스템용 무선기기) | | | | |
| 기본모델명 Basic Model Number | Parani-SD1100 | | | | |
| 파생모델명 Series Model Number ' | | | | | |
| 인증번호 Certification No | SNA-Parani-SD1100 | | | | |
| 제조자/제조국가 Manufacturer/ Country of Origin | (주)세나테 <u>크놀로지/한국</u> | | | | |
| 형식기호 Type Identification | LARN8-IO3S2402/2480TR0.0005F1DG1D79 | | | | |
| 인증연월일 Date of Certification | 2010년(Year) 05월(Month) 18일(Date) | | | | |
| 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.

2010년(Year) 05월(Month) 18일(Date)

전파연-

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

Tables (ST)

〈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 안내내용을 확인하시고 인증표시 부착의무를 반드시준수해 주시기 바랍니다.



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 Separation 79ch) 0.0003W/MHz G1D 2402 - 2480MHz (1MHz Separation 79ch) 0.00003 W/MHz |
| Model or Product name | Parani-SD1100 |
| The number of construction design certificate | 010WWBT0041 |
| Date of certified | 20 May 2010 |
| Remark | |

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



TÜV SÜD Ohtama, Ltd



平成 22 年 5 月 20 日

Sena Technologies, Inc. 殿

工事設計認証書

| 特 | 定 | 無 | 線 | 設 | 備 | の | 種 | 别 | 証明規則第2条第1項第 19 号の無線設備 |
|------------------|---|---|----|--------|---------------------------------|--------------|-------------|---|---------------------------------|
| | | | | | | | | | F1D 2402~2480MHz (1MHz 間隔 79 波) |
| 電波の型式、周波数及び空中線電力 | | | | to chi | 4白 膏 | ∍ - h | 0.0003W/MHz | | |
| 亀波の空丸、周波数及び空中線亀刀 | | | 秋年 | 3/J | G1D:2402~2480MHz (1MHz 間隔 79 波) | | | | |
| | | | | | | | | | 0.00003 W/MHz |
| 型 | 定 | ; | 又 | | は | 名 | | 称 | Parani-SD1100 |
| 製 | | 造 | | | 者 | | | 名 | Sena Technologies, Inc. |
| 認 | | 証 | | | 番 | | | 号 | 010WWBT0041 |
| 認 | 証 | を | し | た | 年 | F. | 1 | 日 | 平成 22 年 5 月 20 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