

TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

Certification

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

By:

**EMCCert Dr. Rasek GmbH
Boelwiese 5
D-91320 Ebermannstadt,
Germany**

Date of Grant: 06/27/2006

Application Dated: 06/27/2006

**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: S7APARANISD100
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Bluetooth RS232C Serial Adaptor

<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	0.017		

Power output listed is peak conducted. SAR compliance has been established in a laptop computer configuration as tested and shown in filing, and can be used in laptop computers with substantially similar physical dimensions, construction, and electrical and RF characteristics. Compliance of this device in all final host configurations is the responsibility of the Grantee. The transmitter may operate with the antenna tested for this filing.

End-users must be provided with specific information required to satisfy RF exposure compliance for all final host devices. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. Maximum measured SAR value: 0,110 W/kg (Body)

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FCC IDENTIFIER: S7APARANISD200
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Bluetooth RS232C Serial Adaptor

<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	0.00282		

Power output listed is peak conducted. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Technical Construction File (TCF) Details

<i>To demonstrate conformity with Article 3.1(a) Health</i>			
Applied Standards	Version	Applied Standards	Version
Council Rec. 99/519/EC			
Report or Certificate No.	Issue Date	Issued by	
STROS-06-021	2006-06-15	SGS Testing Korea Co., Ltd.	
<i>To demonstrate conformity with Article 3.1(a) Safety</i>			
Applied Standards	Version	Applied Standards	Version
EN 60950-1	2001		
Report or Certificate No.	Issue Date	Issued by	
STS-06-0145 S R LV	2006-05-29	SGS Testing Korea Co., Ltd.	
<i>To demonstrate conformity with Article 3.1(b) EMC</i>			
Applied Standards	Version	Applied Standards	Version
EN 301 489-1	V1.6.1		
EN 301 489-17	V1.2.1		
Report or Certificate No.	Issue Date	Issued by	
STK-05-EMCG0068	2006-05-25	SGS Testing Korea Co., Ltd.	
<i>To demonstrate conformity with Article 3.2 Spectrum Efficiency</i>			
Applied Standards	Version	Applied Standards	Version
EN 300 328	V1.6.1		
Report or Certificate No.	Issue Date	Issued by	
STROR-06-047	2006-06-05	SGS Testing Korea Co., Ltd.	
<i>Declaration of Conformity</i>			
Signed by		Date	
YS Kim		2006-05-17	
<i>Technical Documentation</i>			
Block diagram			
Parts list			
Component layout			
Schematic diagram			
User Manual			

Designated by the German Regulator  
Regulierungsbehörde für
Telekommunikation und Post

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. G103044U

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

Product Designation Bluetooth Serial Adaptor, Model: Parani SD100

Product Description Wideband transmission system in the 2.4 GHz ISM band

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

Essential Requirement	Applied Specifications / Standards	Do umentary Evidence	Result
Art. 3.1(a) Health	Council Rec. 99/519/EC	Test Report STROS-06-021	conform
Art. 3.1(a) Safety	EN 60950-1	Test Report STS-06-0145 S R LV	conform
Art. 3.1(b) EMC	EN 301 489-1/-17	Test Report STK-05-EMCG0068	conform
Art. 3.2 Radio	EN 300 328	Test Report STORR-06-047	conform

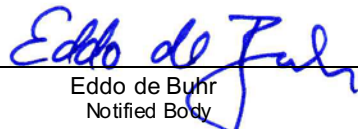
The product shall be marked with the CE conformity marking
and our Notified Body number as shown on the right.

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 9th March, 1999 and is only valid in conjunction with the attached Annex.

Ebermannstadt,
2006-06-20


Eddo de Buhr
Notified Body



Technical Construction File (TCF) Details

<i>To demonstrate conformity with Article 3.1(a) Health</i>			
Applied Standards	Version	Applied Standards	Version
Council Rec. 99/519/EC			
Report or Certificate No.	Issue Date	Issued by	
Declaration of Conformity	2006-07-25	SENA Technologies, Inc.	
<i>To demonstrate conformity with Article 3.1(a) Safety</i>			
Applied Standards	Version	Applied Standards	Version
EN 60950-1	2001		
Report or Certificate No.	Issue Date	Issued by	
STS-06-0184 S R LV	2006-07-20	SGS Testing Korea Co., Ltd.	
<i>To demonstrate conformity with Article 3.1(b) EMC</i>			
Applied Standards	Version	Applied Standards	Version
EN 301 489-1	V1.6.1		
EN 301 489-17	V1.2.1		
Report or Certificate No.	Issue Date	Issued by	
STK-06-EMCG0073	2006-07-05	SGS Testing Korea Co., Ltd.	
<i>To demonstrate conformity with Article 3.2 Spectrum Efficiency</i>			
Applied Standards	Version	Applied Standards	Version
EN 300 328	V1.6.1		
Report or Certificate No.	Issue Date	Issued by	
STROR-06-059	2006-07-25	SGS Testing Korea Co., Ltd.	
<i>Declaration of Conformity</i>			
Signed by		Date	
YS Kim		2006-07-25	
<i>Technical Documentation</i>			
Block diagram			
Parts list			
Schematic diagram			
User Manual			

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. G103130U

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

Product Designation Bluetooth Serial Adaptor, Model: Parani-SD200

Product Description Wideband transmission system in the 2.4 GHz ISM band

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

Essential Requirement		Applied Specifications / Standards	Do cumentary Evidence	Result
Art. 3.1(a)	Health	Council Rec. 99/519/EC	Declaration of Conformity	conform
Art. 3.1(a)	Safety	EN 60950-1	Test Report STS-06-0184 S R LV	conform
Art. 3.1(b)	EMC	EN 301 489-1/-17	Test Report STK-06-EMCG0073	conform
Art. 3.2	Radio	EN 300 328	Test Report STORR-06-059	conform

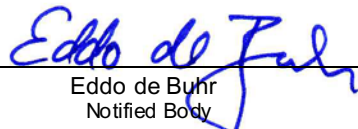
The product shall be marked with the CE conformity marking
and our Notified Body number as shown on the right.

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 9th March, 1999 and is only valid in conjunction with the attached Annex.

Ebermannstadt,
2006-07-28


Eddo de Buhr
Notified Body



Declaration of Conformity

We, Sena Technologies, Inc.

210 Yangjae-dong, Seocho-gu, Seoul, 137-130 Korea

TEL. +82-2-571-8283 / Fax. +82-2-573-7710

Declare under our own responsibility that the product

Bluetooth Serial Adaptor

Brand name: SENA

Model No.: Parani-SD200

To which this declaration refers conforms with the relevant standards or other standardizing documents

Art.3.1.a) **EN 60950-1: 2001**

Art.3.1.b) **ETSI EN 301 489-1 V1.6.1**

ETSI EN 301 489-17 V.1.2.1

Art.3.2) **ETSI EN 300 328 V1.6.1**

According to the regulations in **Directive 1999/5/EC.**

Technical Documentation kept at: Sena Technologies, Inc.

[Place, date]

Austria

Belgium

Bulgaria

Cyprus

Czech Republic

Denmark

Estonia

Finland

France

Germany

Greece

Hungary

Ireland

Italy

Latvia

Lithuania

Luxembourg

Malta

Netherlands

Poland

Portugal

Romania

Slovenia

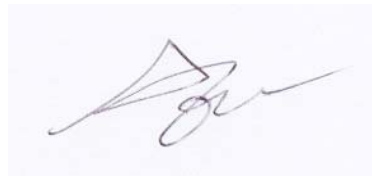
Slovakia

Spain

Sweden

United Kingdom

[Name and signature of person responsible]



July 28, 2006

Seung – Hyun Kim
Associate Research Engineer

Type Certificate

To: Sena Technologies, Inc.

Manager Mr. Young-Sam Kim

Classification of specified radio equipment	Ordinance of Technical Regulations Conformity Certification, Article 2, Clause 1, Item 19, 2.4 GHz Band Wide-band Low Power Data Communication System
Type of emissions, frequency and antenna power	F1D 2441MHz 0.0004W/MHz
Model Name	Parani-SD100
Manufacturer Name (Brand Name)	Sena Technologies, Inc.
Certified Number	003NY06095 0000
Certified Date	July 10, 2006
Remark	

This is to certify that the above mentioned certification by type has been granted in accordance with the provisions of Article 38-24, Paragraph 1 of the Radio Law.

Date: July 10, 2006

DSP Research Inc.



認 証 書

Sena Technologies, Inc.

Manager Mr. Young-Sam Kim 殿

特定無線 設備の種類	証明規則第2条第1項第19号の無線設備 2. 4GHz帯高度化小電力データ通信システム
電波の形式、 周波数及び 空中線電力	F1D 2441MHz 0.0004W/MHz
型 式 又 は 名 称	Parani-SD100
製 造 者 名	Sena Technologies, Inc.
認 証 番 号	003NY06095 0000
認 証 を し た 年 月 日	平成18年7月10日
備 考	

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

平成18年8月25日

株式会社ディーエスピーリサーチ



(Translation)

Type Certification Certificate

Classification	Radio equipment stipulated in the article 2-1-19 of the certification ordinance 2.4GHz low power data communication system
Type of emission, frequency and rated output power	F1D 2441MHz 0.000014W/MHz
Model number or name	Parani—SD200
Certified dealer	Sena Technologies, Inc.
End product vender	Sena Technologies, Inc.
Certification number	009NYCA0006
Certification date	August 11th 2006

This is to certify that the above radio equipment is complied with the provisions of the Article 38-24-1 of the Radio law.

August 11th 2006

SGS Japan Inc.

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19号に掲げる無線設備 2.4GHz帯高度化小電力データ通信システム
電波の型式、周波数 及び空中線電力	F1D 2441MHz 0.000014W/MHz
型式又は名称	Parani-SD200
認証取扱業者名	Sena Technologies, Inc.
製造者名	Sena Technologies, Inc.
工事設計認証番号	009NYCA0006
認証をした年月日	平成18年8月11日

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

平成18年8月11日

SGS ジャパン株式会社



정보통신기기 인증서

Certificate of Information and Communication Equipment

인 증 종 류 형식등록(Type Registration)

Certification Type

성 명 또 는 상 호 (주)세나테크놀로지

Trade Name or Applicant

기 기 의 명 칭 무선데이터통신시스템용 무선기기

Equipment Name

기 기 의 모 델 명 Parani-SD100

Model Number of Equipment

인 증 번 호 SNA-Parani-SD100

Certification No

제 조 자 및 제 조 국 가 (주)세나테크놀로지/한국

*Manufacturer and Country
of Origin*

형 식 기 호 LARN8-IO2S2402/2480TR0.0003F1D79

Type Identification

인 증 년 월 일 2006년(Year) 06월(Month) 09일(Date)

Date of Certification

기 타

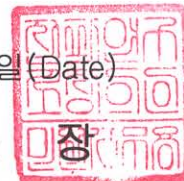
Others

위 기기는 정보통신기기 인증규칙에 의해 인증되었음을 증명합니다.

*It is certified that foregoing equipment has been certificated under
the provisions of the Regulations on Certification of Information
and Communication Equipment.*

2006년(Year) 06월(Month) 09일(Date)

전 파 연 구 소



*Director General of Radio Research Laboratory
Ministry of Information and Communication
Republic of Korea*

정보통신기기 인증서

Certificate of Information and Communication Equipment

인 증 종 류 형식등록(Type Registration)
Certification Type

성 명 또 는 상 호 (주)세나테크놀로지
Trade Name or Applicant

기 기 의 명 칭 무선데이터통신시스템용 무선기기
Equipment Name

기 기 의 모 델 명 Parani-SD200
Model Number of Equipment

인 증 번 호 SNA-Parani-SD200
Certification No

제 조 자 및 제 조 국 가 (주)세나테크놀로지/한국
Manufacturer and Country of Origin

형 식 기 호 LARN8-IO2S2402/2480TR0.00006F1D79
Type Identification

인 증 년 월 일 2006년(Year) 07월(Month) 31일(Date)
Date of Certification

기 타
Others

위 기기는 정보통신기기 인증규칙에 의해 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the provisions of the Regulations on Certification of Information and Communication Equipment.

2006년(Year) 07월(Month) 31일(Date)

전 파 연 구 소 장

Director General of Radio Research Laboratory
Ministry of Information and Communication
Republic of Korea

