

TCB

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**GRANT OF EQUIPMENT
AUTHORIZATION**

**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: 09/22/2006
Application Dated: 09/21/2006**

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

Attention: YOUNGSAM KIM , Vice President

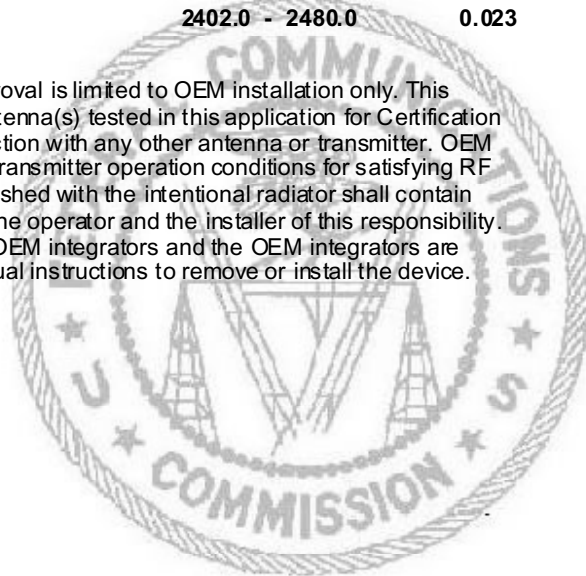
NOT TRANSFERABLE

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: S7APARANIESD100
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Bluetooth 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	0.023		

Power listed is conducted. Modular Approval. Approval is limited to OEM installation only. This transmitter is restricted for use with the specific antenna(s) tested in this application for Certification and must not be co-located or operating in conjunction with any other antenna or transmitter. OEM integrators and End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device.



**Notified Body
Number 1177**



NOTIFIED BODY STATEMENT OF OPINION

Notified Body Statement of Opinion of a product with the essential requirements art. 3.2 of the R&TTE Directive 1999/5/EC, according to the conformity assessment procedure referred in article 10(5) and Annex IV.

DESCRIPTION OF THE PRODUCT

Manufacturer : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Product description : BLUETOOTH SERIAL ADAPTOR MODULE
Intended use : SRD – WIDEBAND DATA TRANSMISSION SYSTEM
RF output power : 69mW EIRP, Chip antenna max. 3.95dBi
Frequency band : 2402 – 2480 MHz, 79 Channels
Modulation : FHSS (GFSK)
Brand : SENA
Type : Parani-ESD100

TECHNICAL CONSTRUCTION FILE

Issued by : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Fax number : +82-2-573-7710
Signed by : SEUNG- HYUN KIM
ASSOCIATE RESEARCH ENGINEER
Date : NOVEMBER 15, 2006
File Number : RF-S0609E

TIMCO NOTIFIED BODY STATEMENT OF OPINION

Issued by : Notified Body 1177, TIMCO Engineering, Inc.
Date : November 22, 2006
Opinion number : TCF-3181KC6
On behalf of : The President of TIMCO Engineering, Inc.
Signature : *Bruno Clavier* (signed)
Name : Bruno Clavier

The device shall be marked as follows:



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 art 3.2 of R&TTE Directive 1999/5/EC.

TIMCO ENGINEERING, INC.
P.O. BOX 370
NEWBERRY, FLORIDA 32669
Telephone: 1-888-472-2424
Fax: 1-352-472-2030
E-mail: info@TIMCOengr.com

Designated by:

National Institute of
Standards and Technology
An agency of the U.S.
Commerce
Department

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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-ESD100
Model Number of Equipment

인 증 번 호 SNA-Parani-ESD100
Certification No

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

형 식 기 호 LARN8-IO2S2402/2480TR0.0005F1D79
Type Identification

인 증 년 월 일 2006년(Year) 09월(Month) 14일(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) 09월(Month) 14일(Date)

전 파 연 구 소 장



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

Certification**Issued Under the Authority of the
Federal Communications Commission****By:****EMCCert Dr. Rasek GmbH
Boelwiese 5
D-91320 Ebermannstadt,
Germany****Date of Grant: 08/14/2006****Application Dated: 08/14/2006****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: S7APARANIESD1 10
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Bluetooth Module

<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	0.0159		

Modular Approval. Power output listed is peak conducted. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device. 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. OEM integrators must be provided with antenna installation instructions. OEM integrators and end-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance.

Notified Body Number 1177



NOTIFIED BODY STATEMENT OF OPINION

Notified Body Statement of Opinion of a product with the essential requirements art. 3.2 of the R&TTE Directive 1999/5/EC, according to the conformity assessment procedure referred in article 10(5) and Annex IV.

DESCRIPTION OF THE PRODUCT

Manufacturer : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Product description : BLUETOOTH SERIAL ADAPTOR
Intended use : SRD – WIDEBAND DATA TRANSMISSION SYSTEM
RF output power : 16dBm EIRP, external antenna 2dBi
Frequency band : 2402 – 2480MHz, 79 channels
Modulation : FHSS (GFSK)
Brand : SENA
Type : Parani-ESD110

TECHNICAL CONSTRUCTION FILE

Issued by : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Fax number : +82-2-573-7710
Signed by : SEUNG-HYUN KIM
ASSOCIATE RESEARCH ENGINEER
Date : OCTOBER 18, 2006
File Number : RF-S0610B

TIMCO NOTIFIED BODY STATEMENT OF OPINION

Issued by : Notified Body 1177, TIMCO Engineering, Inc.
Date : October 26, 2006
Opinion number : TCF-2962KC6
On behalf of : The President of TIMCO Engineering, Inc.
Signature : *Bruno Clavier* (signed)
Name : Bruno Clavier

The device shall be marked as follows:



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 art 3.2 of R&TTE Directive 1999/5/EC.

TIMCO ENGINEERING, INC.
P.O. BOX 370
NEWBERRY, FLORIDA 32669
Telephone: 1-888-472-2424
Fax: 1-352-472-2030
E-mail: info@TIMCOengr.com

Designated by:

National Institute of
Standards and Technology
An agency of the U.S.
Commerce
Department

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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-ESD110
Model Number of Equipment

인 증 번 호 SNA-Parani-ESD110
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) 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*



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**GRANT OF EQUIPMENT
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**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: 09/26/2006
Application Dated: 09/20/2006**

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

Attention: YOUNGSAM KIM, Vice President

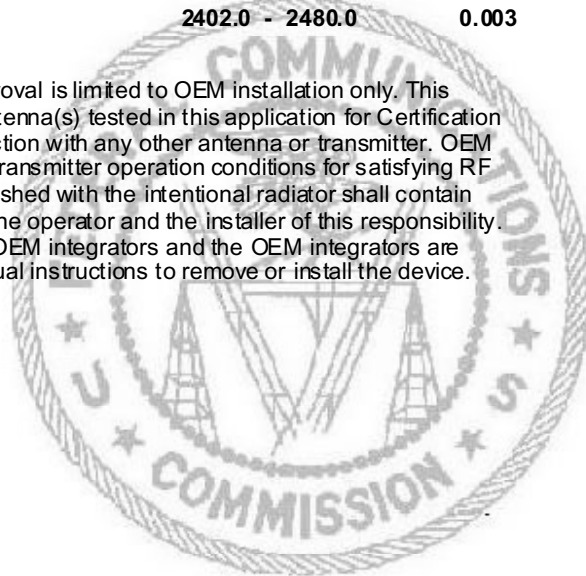
NOT TRANSFERABLE

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: S7APARANIESD200
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: BLUETOOTH 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	0.003		

Power listed is conducted. Modular Approval. Approval is limited to OEM installation only. This transmitter is restricted for use with the specific antenna(s) tested in this application for Certification and must not be co-located or operating in conjunction with any other antenna or transmitter. OEM integrators and End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device.



**Notified Body
Number 1177**



NOTIFIED BODY STATEMENT OF OPINION

Notified Body Statement of Opinion of a product with the essential requirements art. 3.2 of the R&TTE Directive 1999/5/EC, according to the conformity assessment procedure referred in article 10(5) and Annex IV.

DESCRIPTION OF THE PRODUCT

Manufacturer : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Product description : BLUETOOTH SERIAL ADAPTOR MODULE
Intended use : SRD – WIDEBAND DATA TRANSMISSION SYSTEM
RF output power : < 5mW EIRP, External antenna max. 1.6dBi
Frequency band : 2402 – 2480 MHz, 79 Channels
Modulation : FHSS (GFSK)
Brand : SENA
Type : Parani-ESD210

TECHNICAL CONSTRUCTION FILE

Issued by : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Fax number : +82-2-573-7710
Signed by : SEUNG- HYUN KIM
ASSOCIATE RESEARCH ENGINEER
Date : NOVEMBER 15, 2006
File Number : RF-S0609G

TIMCO NOTIFIED BODY STATEMENT OF OPINION

Issued by : Notified Body 1177, TIMCO Engineering, Inc.
Date : November 22, 2006
Opinion number : TCF-3180KC6
On behalf of : The President of TIMCO Engineering, Inc.
Signature : *Bruno Clavier* (signed)
Name : Bruno Clavier

The device shall be marked as follows:



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 art 3.2 of R&TTE Directive 1999/5/EC.

TIMCO ENGINEERING, INC.
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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-ESD200

Model Number of Equipment

인 증 번 호 SNA-Parani-ESD200

Certification No

제 조 자 및 제 조 국 가 (주)세나테크놀로지/한국

*Manufacturer and Country
of Origin*

형 식 기 호 LARN8-IO2S2402/2480TR0.00003F1D79

Type Identification

인 증 년 월 일 2006년(Year) 09월(Month) 12일(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) 09월(Month) 12일(Date)

전 파 연 구 소 장



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

TCB

**GRANT OF EQUIPMENT
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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: 09/12/2006
Application Dated: 09/12/2006**

**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: S7APARANIESD210
Name of Grantee: Sena Technologies, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: BLUETOOTH 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	0.002		



**Notified Body
Number 1177**



NOTIFIED BODY STATEMENT OF OPINION

Notified Body Statement of Opinion of a product with the essential requirements art. 3.2 of the R&TTE Directive 1999/5/EC, according to the conformity assessment procedure referred in article 10(5) and Annex IV.

DESCRIPTION OF THE PRODUCT

Manufacturer : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Product description : BLUETOOTH SERIAL ADAPTOR MODULE
Intended use : SRD – WIDEBAND DATA TRANSMISSION SYSTEM
RF output power : < 5mW EIRP, External antenna max. 1.6dBi
Frequency band : 2402 – 2480 MHz, 79 Channels
Modulation : FHSS (GFSK)
Brand : SENA
Type : Parani-ESD210

TECHNICAL CONSTRUCTION FILE

Issued by : SENA TECHNOLOGIES, INC.
Address : 210 YANGJAE-DONG SEOCHO-GU
SEOUL, 137-130 KOREA
Phone number : +82-2-571-8283
Fax number : +82-2-573-7710
Signed by : SEUNG- HYUN KIM
ASSOCIATE RESEARCH ENGINEER
Date : NOVEMBER 15, 2006
File Number : RF-S0609G

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Date : November 22, 2006
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On behalf of : The President of TIMCO Engineering, Inc.
Signature : *Bruno Clavier* (signed)
Name : Bruno Clavier

The device shall be marked as follows:



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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-ESD210

Model Number of Equipment

인 증 번 호 SNA-Parani-ESD210

Certification No

제 조 자 및 제 조 국 가 (주)세나테크놀로지/한국

*Manufacturer and Country
of Origin*

형 식 기 호 LARN8-IO2S2402/2480TR0.00003F1D79

Type Identification

인 증 년 월 일 2006년(Year) 09월(Month) 12일(Date)

Date of Certification

기 타

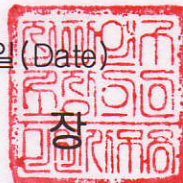
Others

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2006년(Year) 09월(Month) 12일(Date)

전 파 연 구 소 장



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