ENTERASYS NETWORKS™

February 16, 2004

RoamAbout

802.11b Radio Certification and Regulatory Information

RoamAbout 11 Mbit/s PC Cards

There are 3 variations of the RoamAbout PC Card: World (CSICD), Standard (CSIBD), and Hi-Gain Matched (CSILD). The World Card only supports 11 channels. The other cards have variants, where the -AA variant supports 11 channels and -AB supports 13 channels. An -AJ variant supports 14 channels and is only available in Japan. An -AF variant supports 4 channels and is only available in Singapore. All RoamAbout PC Cards have the 128-bit encryption feature.

The radio certification information in this document applies to PC Card use with the RoamAbout Access Point 2000, RoamAbout R2 Wireless Access Platform, RoamAbout Wireless Ethernet Adapter, client PCs, and client laptops only.

Country	Part Number	Supported Antennas	Approval Number	Approval Reference
Argentina	CSICD-AW-128	Range Extender	CNC 16-2574	
Australia	CSICD-AW-128	Range Extender		
	CSIBD-AA-128	Range Extender Omni Yagi		Document on file at Enterasys Networks, Inc.
	CSIBD-AB-128	Range Extender Omni		
	CSILD-AB-128	Yagi		
Austria	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Belarus	CSIBD-AB-128	Range Extender Omni	BY/112.03.1.1.DA1112	
	CSILD-AB-128	Yagi	BY/112.03.1.1.DA1112	
Belgium	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Brazil	CSIBD-AA-128	Range Extender Omni Yagi	015801-AUU0465	

Country	Part Number	Supported Antennas	Approval Number	Approval Reference
Canada	CSICD-AW-128	Range Extender	Canada 4005104679A	Industry Canada Contact Information can be found at the end of this document.
	CSIBD-AA-128	Range Extender Omni Yagi	Canada 1926 391 152A	
Chile	CSICD-AW-128	Range Extender		
China	CSIBD-AB-128	Range Extender	2000-247	CMII ID: 2000AJ0247
	CSICD-AW-128	Range Extender		CMII ID: 2002DJ1380
Columbia	CSICD-AW-128	Range Extender	CRT 4000819	
Czech Republic	CSIBD-AB-128	Range Extender Omni	CTU 2000 3 R 1074	
	CSILD-AB-128	Yagi	CTU 2000 3 R 1074	
Denmark	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Finland	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
France	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Germany	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Greece	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Hong Kong (*see* Hong Kong note)	CSICD-AW-128	Range Extender		
	CSIBD-AA-128	Range Extender	LP400100	
	CSIBD-AB-128	Range Extender		No certification needed
Hungary	CSIBD-AB-128	Range Extender Omni Yagi	LA-010-0-2000/00	

Country	Part Number	Supported Antennas	Approval Number	Approval Reference
Iceland	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
India	CSIBD-AA-128	Range Extender	ET A- 4 /2002- WPC	
Ireland	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Italy	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Japan (*see* Japan note)	CSICD-AW-128	Range Extender	TELEC: 01NYDA1333 JATE: D01-1128JP	
	CSIBD-AJ-128	Range Extender	TELEC: NYCA0125 JATE: D99-1057JP	
Korea	CSICD-AW-128	Range Extender	R-LARN-02-0027	
	CSIBD-AA-128	Range Extender		
Latvia	CSIBD-AB-128	Range Extender Omni Yagi	Nr.000311537	Nr.234 R
Liechtenstein	CSICD-AW-128	Range Extender	CE 0336	
Lithuania	CSIBD-AB-128	Range Extender Omni	14E911	Reg No. 0225
	CSICD-AW-128	Range Extender	14E0210	
	CSILD-AB-128	Yagi	14E911	Reg No. 0225
Luxembourg	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Malaysia	CSIBD-AB-128	Range Extender	RADL/94A/0900/S	
Mexico	CSICD-AW-128	Range Extender	RCPLUPC01-498	
	CSIBD-AA-128	Range Extender		0002C04600
Netherlands	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	

Country	Part Number	Supported Antennas	Approval Number	Approval Reference
New Zealand	CSICD-AW-128	Range Extender	ENG 3/2/RFS29	
	CSIBD-AB-128	Range Extender Omni		ENG 3/2/RFS29
	CSILD-AB-128	Range Extender Omni		ENG 3/2/RFS29
Norway	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Poland	CSICD-AW-128	Range Extender	072/2002	
	CSIBD-AB-128	Range Extender Omni Yagi	Nr 71/2001	nr L 121/2/00
Portugal	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Russia	CSIBD-AB-128	Range Extender Omni	OC/1-PM-71	
	CSILD-AB-128	Yagi	OC/1-PM-71	
Saudi Arabia	CSICD-AW-128	Range Extender	Ref. 10/36	
Singapore	CSICD-AW-128	Range Extender	PMREQ-0029-2002	Restricted frequency band: In Singapore wireless devices \may only use channels 10 and 11 (2445.0-2483.5 MHz).
	CSIBD-AF-128 (4 channels)	Range Extender	PMREQ-0132-2000	
Slovak Republic	CSIBD-AB-128	Range Extender Omni	TU R 285 SR 2000 3	
	CSILD-AB-128	Yagi	TU R 285 SR 2000 3	
Slovenia	CSIBD-AB-128	Range Extender Omni	C227-179/99	C9904293 (DN: 99002207)
	CSILD-AB-128	Yagi	C227-179/99	C9904293 (DN: 99002207)
South Korea	CSIBD-AA-128	Range Extender	LARN 000022	EMI-EMS Reg No. 00-KES-0346
Spain	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Sweden	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	

Country	Part Number	Supported Antennas	Approval Number	Approval Reference
Switzerland	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
Taiwan	CSICD-AW-128	Range Extender	91LP0025 (DGT 91-2-5)	
	CSIBD-AA-128	Range Extender	90LP0083	
	CSIBD-AB-128	Range Extender	89LP0096	
Thailand	CSICD-AW-128	Range Extender	704/9494	
	CSIBD-AB-128	Range Extender	PTD.578/2000	
Turkey	CSIBD-AB-128	Range Extender Omni Yagi	SAYI: B.61.TK.0.22.00.01 / 862-460	
United Arab Emirates	CSICD-AW-128	Range Extender	MoC 830/1307	
United Kingdom	CSICD-AW-128	Range Extender	CE 0336	
	CSIBD-AB-128	Range Extender Omni	CE 0122	
	CSILD-AB-128	Yagi	CE 0122	
USA	CSICD-AW-128	Range Extender	FCC ID:IMRWLPCE2411R	
	CSIBD-AA-128	Range Extender Omni Yagi	FCC ID: IMRWLPCE24H	
Venezuela	CSICD-AW-128	Range Extender	CONATEL 01388301	

Country Notices for All RoamAbout PC Cards

USA Federal Communications Commission (FCC)

Declaration of Conformity for products marked with FCC logo
This device complies with Part 15 of FCC Rules. Operation of the device is subject to the following two conditions (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.
Products that contain a radio transmitter are labeled with FCC ID and may also carry the FCC logo.

Caution: Exposure to Radio Frequency Radiation.
To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied:

a. For configurations using the integral antenna, the separation distance between the antenna(s) and any person's body (including hands, wrists, feet and ankles) must be at least 2.5 cm (1 inch).

b. For configurations using an approved external antenna, the separation distance between the antenna and any person's body (including hands, wrists, feet and ankles) must be at least 20 cm (8 inch).
The transmitter shall not be collocated with other transmitters or antennas.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Enterasys Networks may void the user's authority to operate the equipment.

Canada

Industry Canada (IC)

This wireless radio of this device complies with RSS 139 & RSS 210 of Industry Canada.

This Class B digital device complies with Canadian ICES-003 (NMB-003).

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Industry Canada Contact Information for RoamAbout Customers:

Industry Canada
Certification and Engineering Bureau
3701 Carling Avenue Bldg. 94
P.O. Box 114900, Station "H"
Ottawa, Ontario
K2H 8S2
Telephone: (613) 990-1500
Web site: http://spetrum.ic.gc.ca/~cert/

Europe - European Union Notice

All products with the CE marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards).

CE

- EN 55022 (CISPR 22) - Electromagnetic Interference
- EN 55024 (IEC61000-4-2,3,4,5,6,8,11) - Electromagnetic Immunity
- EN 61000-3-2 (IEC610000-3-2) - Power Line Harmonics
- EN 61000-3-3 (IEC610000-3-3) - Power Line Flicker
- EN 60950 (IEC60950) - Product Safety

Products labeled with the CE0336 or the CE alert marking contain a radio transmitter that complies with the R&TTE Directive (1999/5/EC) issued by the Commission of the European Community.
Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

CE !

- EN 60950 (IEC60950) - Product Safety
- EN 300 328 Technical requirements for radio equipment.
- ETS 300 826 and ETS 301 489-17 General EMC requirements for radio equipment (CSICD PC Card only).

To determine the type of transmitter, check the identification label on your Wireless LAN Product.

VCCI Notice

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

この装置は，情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は，家庭環境で使用することを目的としていますが，この装置がラジオやテレビジョン受信機に近接して使用されると，受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Japanese Notice (CSICD PC Card Only)

Association of Radio Industries and Businesses (ARIB) STD-T66 Notice

This product has been classified as a "second generation low-power data communication system", conforming to the Terminal Equipment Technology Standard set out in the "Law Concerning Electrical Communications Enterprises" and "Law Concerning Electromagnetic Waves".

For approval reference consult the section Radio Approvals.

This product uses Direct Sequence Spread Spectrum (DSSS) modulation and radio frequencies in the 2.400-2.483 MHz band.

This frequency band is also used by industrial, scientific and medical equipment, such as:

- Microwave ovens
- Mobile Object Identification Systems (RF-ID) including both:
  - Premises radio systems that require a license, or
  - Specificed low power radio stations for factory production lines that do not require a license.

Before using this equipment,

1. Make sure that you do not use your wireless LAN equipment in the vicinity of a Mobile Object Identification System (RF-ID). The range of possible interference is 40 m.
2. In case RF interference occurs to a Mobile Object Identification System (RF-ID), stop emitting radio signals or change the active frequency channel of your equipment. In case RF interference occurs to a licensed Mobile Object Identification System stop emitting radio signals immediately.
3. If you have a problem with your wireless equipment, such as interference from your equipment to a Mobile Object Identification System (RF-ID), contact your authorized reseller or manufacturer.
   You can find address details on our web site at **www.enterasys.com**

Restrictions for EU/EFTA Countries to R&TTE Directive:

AT	BE	DK	FI	Member states in EU with restrictive use for this product are crossed out !
~~FR~~	DE	GR	IE	*Les états membres de l'Union Européenne avec une utilisation restrictive de ce produit sont rayés !*
~~IT~~	LU	NL	PT	Mitgliedsstaaten der EU mit eingeschränkten Nutzungsrechten für dieses Produkt sind herausgestrichen
ES	SE	GB	NO	*Gli Stati membri nella Comunità Europea (EU) con restrizioni sull'uso di questi prodotti sono contrassegnati di seguito!*
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France:	For normal operation of these products only a limited band is available in France (allows use of channels 10, 11, 12 and 13 only). For WLAN in hotspots ART has special regulations allowing other channels too; you have to check with ART on this for local rulings and for authorization.
Italy	Use with outdoor installation crossing public soil requires license.

The following CE0336 notice only applies to the CSICD PC Card.

CE 0336 !	Important Notice: Low power radio LAN product operating in 2.4 GHz band for Home and Office environments. Please refer to flyer/manual for details on restrictions.
Notice Importante : Produit réseau local radio basse puissance opérant dans la bande de fréquence 2,4GHz pour les environnements bureautiques et résidentielles. Merci de vous référer au manuel pour les détails des restrictions	
Wichtige Mitteilung Low Power FunkLAN Produkt für den Home- und Office-Bereich, das im 2.4GHz Band arbeitet. Weitere Informationen bezüglich Einschränkungen finden Sie im Datenblatt/Handbuch	
Nota Importante: Apparati Radio LAN a bassa potenza, operanti a 2.4GHz, per ambienti domestico ed ufficio. Fare riferimento alla Guida d'Utente per avere informazioni dettagliate sulle restrizioni	

The following CE0122 notice only applies to the CSIBD and CSILD PC Cards.

CE 0122 !	**Important Notice:** Low power radio LAN product operating in 2.4 GHz band for Home and Office environments.
Notice Importante : Produit réseau local radio basse puissance opérant dans la bande de fréquence 2,4GHz pour les environnements bureautiques et résidentielles.	
Wichtige Mitteilung ***Low Power FunkLAN Produkt für den Home- und Office-Bereich, das im 2.4GHz Band arbeitet.***	
Nota Importante: Apparati Radio LAN a bassa potenza, operanti a 2.4GHz, per ambienti domestico ed ufficio.	

The following notices only applies to the CSIBD and CSILD PC Cards.

Hong Kong Note:

Office of the Telecommunications Authority 電訊管理局
This device complies with the Telecommunication (Low Power Devices) (Exemption From Licensing) Order 此產品符合電訊(低功率儀器)(豁免領牌)令
Registration No.: LP400100 註冊號碼:

Japan Notes:

The following note provides instructions to Japanese customers to call the RoamAbout Support Center :03-3257-9708 in Japan, if they encounter an interference problem while operating the RoamAbout near specific radio frequency equipment.

この機器の使用周波数帯では、電子レンジ等の産業・科学・医療用機器のほか工場の製造ライン等で使用されている移動体識別用の構内無線局（免許を要する無線局）及び特定小電力無線局（免許を要しない無線局）が運用されています。

1 この機器を使用する前に、近くで移動体識別用の構内無線局及び特定小電力無線局が運用されていないことを確認して下さい。

2 万一、この機器から移動体識別用の構内無線局に対して電波干渉の事例が発生した場合には、速やかに使用周波数を変更するか又は電波の発射を停止した上、下記連絡先にご連絡頂き、混信回避のための処置等（例えば、パーティションの設置など）についてご相談して下さい。

3 その他、この機器から移動体識別用の特定小電力無線局に対して電波干渉の事例が発生した場合など何かお困りのことが起きたときは、次の連絡先へお問い合わせ下さい。

連絡先：RoamAbout サポートセンター ： 03-3257-9708

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