

EXSTREAMER[®]

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APPLICATION NOTE

AN 2004083 I

**Compatible 802.11b WLAN cards
with 64/128bit WEP support**

Barix AG
Seefeldstrasse 303
CH-8008 Zürich
Switzerland

T +41 43 433 22 11
F +41 1 274 28 49

www.barix.com
info@barix.com



This application note lists compatible WLAN cards with and without support for WEP together with tested access points.

Brands tested: Cisco, D-Link, Lucent, Netgear, Orinocco, Proxim, Siemens

It also explains the following features:

- WEP encryption
- WEP authentication
- Security of Open System vs. Shared key

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The preferred card (100% compatible)

In 2002 when Barix released the Exstreamer Wireless the best choice was the Orinoco 802.11b PCcard as the firmware was stable and supported 64 bit (Silver) up to 128 bit WEP (Gold) and was widely incorporated as an OEM product (Lucent, Cisco and others).

Today only Proxim produces the 100% compatible Orinoco Classic Gold card under the product number: 8410WD. Visit the proxim website under www.proxim.com to locate a dealer next to you.



802.11a and 802.11g are not supported

The a and g cards need a higher bandwidth than 5Mbits (PCMCIA), most cards are now 32bit 3.3V cardbus (rippled golden strip) - which our hardware, unfortunately, cannot support.



16bit PCMCIA card supported



32bit 3.3V cardbus card NOT supported

Access points:

Manufacturer and Name	Model	FCC ID	FW Version
Cisco AIRONET 350 SERIES	AIR-AP350-IOS-UPGRD	LDK102040	C350-K9W7-M / 12.2(13)JA1
Cisco AIRONET 1200 SERIES	AIR-API200		
Netgear Wireless Router	MR314	PD5LMWP100	3.26 CB 4
Netgear Wireless Router	WGR614	PY3WGR614	Version 1.1 Release 01
Netgear Wireless Router	MR814v2	PY3MR814v2	Version 5.02 July 21 2003
Siemens Gigaset 54MBit	SE505		de_2.00.07

WLAN Cards:

Manufacturer and Name	Model	FCC ID	FW Version	No WEP	WEP 64	WEP 128
Proxim Orinoco Classic GOLD	8410WD			OK	OK	OK
D-Link Air DWL-660	DWL-660	IMRWLPCE241 IR	PRI V4.04, STA V8.10	OK	OK	OK
Lucent Techn. Orinoco GOLD	PC24E-H-FC, PN 014916/D	IMRWLPCE24H	PRI V4.04, STA V8.10	OK	OK	OK
Cisco AIRONET 350 SERIES	AIR-PCM352	LDK102040	V4.13	OK	NO	NO
Cisco AIRONET 350 SERIES	AIR-PCM352	LDK102040	V4.23	OK	NO	NO
Cisco AIRONET 350 SERIES	AIR-PCM352	LDK102040	V4.25	OK	NO	NO
Cisco AIRONET 350 SERIES	AIR-PCM352	LDK102040	V5.02 and >	NO	NO	NO
Netgear Wireless 802.11b LAN (2.0)	MA401 V2.0	PD5LMWP100	V0.08.03.00	OK	NO	NO
Netgear Wireless 802.11b LAN (2.0)	MA401 V2.0	PD5LMWP100	V1.03.04.00	OK	NO	NO
Netgear Wireless 802.11b LAN (2.5)	MA401 V2.5	PD5LMWP200	V1.03.06.00	OK	OK	NO
Netgear Wireless 802.11b LAN (2.5)	MA401 Rev.D V2.5	PY3MA401RD	V1.03.06.00	OK	OK	NO

The access point setting NO WEP means no encryption, no authentication and provides no security.

The access point setting SHARED KEY means data encryption and authentication using a 64 bit or 128 bit WEP key and provides **low** security as the WEP authentication permits a hacker a faster brake in !!!

The access point setting OPEN SYSTEM means no authentication but WEP encryption and provides **medium** security.

A MAC address filter increases the security a bit but only a professional authentication (e.g. Radius) brings **real** security!