Corinex Wireless to Powerline Access Point





Quick Start Guide

	Declaration of Conformity
	CE
Model: Cor	inex Wireless to Powerline Access Point
Manufacturer:	Corinex Communications Corp. World Trade Center 404-999 Canada Place Vancouver B.C. Canada V6C 3E2
Directives which	Conformity is Declared:
	EMC: 89/336/EWG LVD: 73/23/EEC 93/68/EEC
Standards which	Conformity is Declared:
	EN 55022 EN 55024 EN 61000-3-2/A14 EN 61000-3-3 EN 60950
The undersigned h	ereby declares the above specified equipment conforms to the above directives and standards.
	Signature: Lite W Place/Date: 2003
F	Printed name: Peter Sobotka Position/Title:CEO

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Wireless to powerline local area network (LAN) solutions, based on Corinex Wireless to Powerline Access Point (AP) products, connect a wireless device to the electrical wires in premises. The electrical wires build the "backbone" for other "wired" or "wireless" devices on the network, which are connected to this backbone by Corinex Powerline adapters or another wireless to powerline access point. Any high-performance Corinex Wireless to Powerline AP extends the coverage of your network of electrical wires and provides access to the Internet and corporate or personal information for all mobile devices without expensive additional cabling infrastructure.

The Corinex Wireless to Powerline Access Point is a Powerline to wireless LAN Bridge for mixed wireless 802.11b and Powerline network environment. With the built-in 802.11b capability, you can connect your legacy wireless device to the home network by plugging the Corinex Wireless to Powerline Access Point into your power plug.

The AP's power jack is a connecting medium to the 14 Mbps digital powerline communication network based on the HomePlug 1.0.1 standard. Plug the *Corinex Wireless to Powerline AP* into an existing powerline network and instantly add full 802.11b-compliant wireless connectivity at up to 11 Mbps. This allows the easiest deployment of wireless HotSpot areas where every power outlet can be used as a powerline network interface to the access point. With *Corinex Wireless to Powerline AP* you have already got the network you need to give the wireless access an entirely new dimension.

Package Content

Package Includes:

By receiving your *Corinex Wireless to Powerline Access Point*, check to be sure that your package contains:

- Corinex Wireless to Powerline Access Point
- Detachable wireless antenna
- AC adapter
- Installation CD-ROM with User Guide
- Quick Installation Guide

Requirements

- IBM Compatible PC or Macintosh computer (needed for initial configuration of the Access Point)
- AC 220/110 V power outlet
- Powerline and/or Wireless connection for each PC
- Windows 98/ME/200/NT/XP, Mac OS X or Linux operating system
- Web browser supporting JavaScript for the AP management

Installation Overview

This Guide will assist you with successful installation and configuration of your *Corinex Wireless to Powerline Access Point* for the first time. It will help you with basic settings, which are covering most of the settings you may need to configure for your Internet connection to be shared through the Powerline medium. However, if you require more sophisticated setup, we advise you to read the *Corinex Wireless to Powerline Access Point User Guide*, enclosed in the Installation CD.



The next chapters will explain you how to connect your *Corinex Wireless to Powerline Access Point* in three easy steps.

Step 1: Connecting the Access Point

Locate an optimum location for the Access Point. The best place for the Access Point is usually at the center of your wireless network, with line of sight to all of your mobile stations.

Fix the direction of the antenna. Try to place it in a position which can best cover your wireless network. Plug the supplied AC power adapter to the *Corinex Wireless to Powerline Access Point* and consequently into an AC outlet. Use only the power adapter supplied with the Access Point. Usage of a different adapter may result in product damage!

After the *Corinex Wireless to Powerline Access Point* is powered ON, verify LED functionality below:

- The LED on the Powerline side labelled LINK should be ON
- The LED on the Wireless side labelled **POWER** should be ON

Note: All other wireless devices must be operating in the infrastructure mode, so that they can communicate with Access Point. If any wireless device is configured in the ad-hoc mode, it WILL NOT be recognized by the Access Point.

Step 2: Configuring Computers

The instructions in this chapter will help you to configure each of your computers to be able to communicate with the *Corinex Wireless to Powerline AP*.

This process differs between powerline connected computers and wireless connected computers and it also depends on operating systems.

A. Using Powerline Connection

We advise you to read and use the Manual of your Powerline Adapter to establish a Powerline connection between *Corinex Wireless to Powerline AP* and Powerline Adapter. Use the Default Powerline (NEK) password "HomePlug", as this is the factory default password setting for the *Corinex Wireless to Powerline AP*. When you are using the *Corinex Setup Tool* to configure your powerline adapter, you can check, whether your Adapter has a powerline connection to the *Corinex Wireless to Powerline AP* by searching in the last window of the *Corinex Setup Tool* for the MAC addresses of the AP. You will find the MAC address of your *Corinex Wireless to Powerline AP* on the label on the bottom of the AP's plastic cover (MAC PLC / SN).

Corinex Setup Tool v2.2 Configured devices	2	Corinex
The following devices have been configured on your network and reachable using 00:50:C2:14:EB:C1 adapter. Displayed Connection Quality between device and 00:50:C2:14:EB:C1.	Device Address 00:50:C2:14:E5:68 00:08:C2:00:F33 00:50:C2:14:E0:F4	Conection Quality 14.00 Mbit/s 14.00 Mbit/s 14.00 Mbit/s
	< <u>B</u> ack <u>R</u> efresh	

B. Using the Wireless Connection

You may need to reconfigure some wireless settings to ensure all settings match between wireless devices.

Note: Different wireless settings will make successful wireless network connections between wireless adapters impossible.

Default Wireless Interface Settings are as follows:

SSID: Corinex Channel: 11 WEP: Disabled

Note: WEP is disabled by default for an easier installation. For enhanced security, it is recommended that you later (after successful configuration) enable WEP on all wireless devices.

C. TCP/IP Settings

Next you will need to configure your TCP/IP Settings. Computers use IP addresses to communicate with each other across a network or the Internet.

Find out which operating system is running your computer, like Windows 95, 98, Millennium, 2000, XP, Linux or Macintosh OS. We do give you detailed configuration guide to the Windows XP Operating System. Other operating systems have slight differences and we recommend to read the *Corinex Wireless to Powerline AP User Guide* for detailed description how to change TCP/IP settings on your Operating System.

Windows XP TCP/IP Settings

A. Click the Start button, then open the Control Panel. From there, click the Network and Internet Connections icon and then the Network Connections window appears.

- **B.** Select the Local Area Connection icon for the applicable adapter (wireless adapter, if you are wireless connected or Powerline Adapter if you are powerline connected. It is usually the first adapter listed). Double-click the Local Area Connection.
- C. The Local Area Connection Status screen will appear. Click the Properties button.

eneral Support	
Connection	
Status:	Connected
Duration:	1 day 23:49:33
Speed:	100.0 Mbps
Signal Strength:	
Activity	Sent — 🛐 — Received
Packets:	3,565,055 2,433,214
Properties	Disable

D. Select Internet Protocol (TCP/IP) and click the Properties button.

Local	Area Connec	tion 4 Propertie	s ?
General	Authentication	Advanced	
Connec	st using:		
119 9	SMC EZ Card 10/	/100 PCI (SMC1211T	×)
			Configure
This cg	nnection uses th	e following items:	
	QoS Packet So	cheduler	^
. 2	SNIFFER Proto	ocol Driver	100
3.2	Internet Protoc	ol (TCP/IP)	
<		- 11	>
	nstal	Uninstall	Properties
Desc	ription		
Tran wide acro	smission Control area network pro ss diverse interco	Protocol/Internet Pro otocol that provides o onnected networks.	tocol. The default communication
Sho	w icon in notifica	tion area when conn	ected
_			DK Cancel

E. Select **Obtain an IP address automatically** and click the **OK** button. Click the **OK** button again (or the **Close** button if any settings were changed) to complete the computer configuration.

General	Alternate Configuration	
You ca this cap the app	n get IP settings assigne ability. Otherwise, you n ropriate IP settings.	ed automatically if your network supports seed to ask your network administrator for
OD	stain an IP address auto	matically
OU	e the following IP addre	ne
Pa	idear.	(
Subr	et mask.	
Deta	ut galeway	l
OP	tain DNS server addres	is automatically
OU	g the following DNS ser	rver addresses:
Beh	med DNS server.	
Ale	vale DNS server	
		Adyanced.
		OK Caro

F. If you do not have DHCP server on the network, then select **Use the following IP address.** Set the **IP address** manually in the shape 192.168.1.X and mask 255.255.255.0 of local TCP/IP settings and click the **OK** button. On the next appearing screen click the **OK** button again.

la rena	
(ricea	
You can get IP settings assign his capability. Otherwise, your he appropriate IP settings.	ed automatically if your network supports need to ask your network administrator for
O Obtain an IP address aut	omatically
O Uge the following IP add	est
JP address:	192.168.1.19
Sybret mask:	255.255.255.0
Default gateway:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
O Ogran DNS server adde	is automatically
O Use the following DNS se	erver addresses:
Evelened DNS server:	
Alternate DNS server:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Adganced.

Step 3: Configuring the Access Point

In this Step, you will configure the *Corinex Wireless to Powerline Access Point.*

A. Open your web browser. (You can get an error message at this point. Ignore it.) Enter http://192.168.1.1 in the web browser's Address field. Press the Enter key and the Corinex Wireless to Powerline Access Point web-based configuration utility will start.

Address http://192.168.1.1

B. Window requiring entering your password will appear. The default password for the configuration utility is **password**. The password is case sensitive. The configuration utility is used to configure both the wireless and powerline aspects of your AP. The wizard contains eight different dialog screen options accessible through the following tabs:

- Home

- Status

- Help
- IP Address
 - IP Address Settings

- Wireless

- Wireless Settings
- Wireless Mode
- Security Settings
- Powerline
 - SNMP Agent
 - NEK Password Setting
 - Powerline Statistics

- Priority Settings

- Advanced

- MAC Address Filtering
- Block Sites
- Security Log
- Utilities
 - Restart Access Point
 - Restore Factory Default
 - Save/Backup Current Settings
 - Restore Previous Settings
 - Firmware Update
 - System Settings

C. The Status screen will allow you to review your settings (Firmware Version, Device Name, IP Settings and Wireless Settings).

S, Corinex	K			
	Corinex Access Point			Connect Status:
Home Status Heb IP Address IP Address Settings Wireless Wreless Settings Wireless Mode	Version Info Finnware V1.90.0099 version V1.90.0099 Device name Context AP	Settings IP Address Subnet Mask Gateway DHCP Client	192.168.1.1 255.255.255.0 0.0.0 Static P	
Securit Setting PowerLine Status 1967 Apart Nat Reserved Setting PowerLine Status And Status Security Status Security Log United Security Log United Security Log United Setting Common Setting Restors Factory Common Setting Restors Factory Setting Restors Factory Setting Restors Factory Setting Restors Previous Setting Firmware Update Serving Setting Firmware Update Serving Setting	Wireless Mode Access Point SSID Connex Channel No. 11			C
S, Carlees		-		5 2003 Carines, Corp. Mt Sights Reserves

D. On the Login screen, enter the default password, password, in the Password field. Then click the Submit button. For enhanced security, remember to change this password later through the web-based utility (Utilities / System Settings).

E, Corinex	K X	
20-0	Login	Connect Status:
I tonia Hono Hardware Sectory IP Address IP Address IP Address IP Address IP Address IP Address Networks Sectory Sectory PowerLine Statetos Advanced MAC Address Frenzy Boots Settory MaC Address Frenzy Boots Settory Interference Advanced MAC Address Frenzy Boots Part Access Nett Restore Factory Defail Sectory Defails Sectory Defails Sectory Defails Bestore Previous Settory Fernicae Current Sector Previous Settory Fernicae Current	Before you can change any settings, you need to log in with a password. If you have not yet set a custom password, then leave this field blank and dck. "Submit." Password Default = leave blank Example Comp	
Se Corinez		12009 Corner, Corp. Willights Generice

E. In the IP Address Settings page you can configure the IP address used by the web-based utility running on this Access Point. If DHCP Client is not enabled, the IP address settings are given here. Otherwise, these settings are supplied by a DHCP server on your network. If you have changed any settings it is necessary to reboot the Access Point for the new settings to take effect.

S, Corinex	R				/					
20-0	IP Settings								Connec	t Status:
Home Status Holo IP Address IP Address IP Address Wreless Wreless Wreless Wreless Wreless Social Status PowerLine	IP Address Setting On this page you ca server running on thi the IP address settin supplied by a DHCP settings it is necess settings to take effect	s n configur s Access ags are gir server on ary to reb ct.	Poir Poir ven h you oot t	e IP add nt. If "Di ere. Ot r netwo he Acc	fres HCP herv rk. 1 ess	s used I Client* vise, the f you ha Point fo	by th is ni ese s ave ch or the	e Web ot enabled, settings are hanged any new		
NEX Password Setting PowerLine Statistics	IP Address	192		168]	1		1		
Advanced	Subnet Mask	255		255	1	255		0		
MAC Address Filtering Block Sites Security Log	Default Gateway		3		-		-			
Utilities Restart Access Point Restore Factory Default	DHCP Client	Ena	ble							
Save/Backup Current Setting Restore Previous Setting Firmware Update System Setting			lasti	Res	et					E
S, Corines			1			11	et en et	New York	© 2107 (crites, ()	p. m. Rigtin Leser-

F. The Wireless Settings page allows you to configure the wireless settings. Enter your wireless network's SSID, select the Channel at which the network broadcasts its wireless signal, name of the AP and fill all the other fields according to you settings requirements. Any new settings will not take effect until the AP is rebooted.

11-1	Wireless Settings		Connect Status:
Home Status Hoo IP Address	You can configuration wireless set Any new settings will not take eff	ttings about Channel ID, SSIDetc. fect until the access point is rebooted.	
Wireless	Regulation Domain	ETSI	
Wreless Settings Wireless Mode	Wan Interface	⊡ Enable	
Security Settings PowerLine	Reject Broadcast probe	Enable	
SIMP Agent NBI: Password Setter	o Channel ID	Channel 11 💌	
Advanced	SSID	Corinex	
MAC Address Filtering Block Sites	Access Point Name	Corinex AP	
SecurityLog Utilities	Basic Rates	2 Mb 🛩	
	Data Rates	11 Mb 🛩	
Save/Bacing Current Setting	Preamble Type	Long Preamble	
Setting Firmware Update	Beacon Interval	100	
	RTS Threshold	2000	
	Threshold	0	
	Augto	Canvel	

G. In the Wireless Mode page you can configure the Access Point to perform in any one of two modes, as a wireless Access Point or as a Wireless Client.

E, Corinex	<u> </u>	
20-0	Wireless Mode	Connect Status:
Home Status	AP MODE	
IP Address Di Address Entiros Wireless	Access Point	
Webers Settings Webers Node Socialty Settings PowerLine SMP Joant Net: Password Setting PowerLine Setatus Proving Settings Proving Settings Proving Settings Proving Settings Mich. Addees Entering Block State Security Log Unitides Security Security Log Unitides Security Log Unitides Sec	Weekess Clent Remote AP SSID Gitte Survey Remote Remote AP Chample	-
Restore Previous Setting Firmware Update System Setting		G
Se, Carines		Canal Contas, Corp. M. Softs Terreson

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H. In the Security Settings screen select the Encryption type, Authentication type, Radius IP, WPA, WEP, etc. Set the Wired Equivalent Privacy (WEP) for your wireless network. Select a WEP or other encryption method and a passphrase. Click on Apply to make changes.

S, Corinex	R.M.				
20-0	Security se	Connect Status:			
Home	Wreless Security S	ettings			- Petrolauren
Status Helo	You can setting En	cryption typ	e and Auth	entication typeetc.	
IP Address					
Wireless	Authentication Tyr		Onen S	wstem at	
Wreless Settings Wreless Mode	Francisco Trans		Mana		
Security Settings Powert ine	wep		None		
SNMP Agent	WEP Type		Enable	128 M	·
PowerLine Statistics	A about Man		No. 4		
Advanced	ACOVENEY		Key I		
MAC Address Filtering	Key 1(Hex)				
Security Log	Key 2(Hex)				
Restart Access Porit	Kov 20dav)				
Restore Factory Default	101 00 1001				
Save/Backup Current	Key 4(Hex)			***********	12
Restore Previous	802.1x				·
Setting Firmware Update	ReAuthEnabled		False Y		
	ReauthPeriod		3600		
	PRadius IP			Secret	
	10 1	1	248	123456	
	0 0	0	0	1	
	0 0	, 0	. 0		
	0 0	. 0	0]	
	WPA				
	Support Station		WPA	*	
	Unicast Opher		TKIP	~	
	Key Interval		3600		
	PSK (HEX)				
	Lice narmhrath		Elevente		
	vse passprindsri				
			Surgering Street, or other		

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I. SNMP Agent - this feature lets you set up SNMP Agent settings.

SNMP Agent Connect Status							
Home This feature lets you set up SMP Agent settings. TP Address							
JP Address Settings							
Wireless SMP Agent Enabled							
Waleess Mode Read Community Srd_community_value							
Downed line Wite Community Swr_community_value							
CNPP Joint NEX-Reaved Setting Rowitchine Statistics Advanced Reg. Roting Setting Reg. Roting Setting Reg. Roting Setting Restar Access Forth Restar Access Forth Resta	D						
& Center							

J. The Network Encryption Key page allows you to configure the Powerline settings. All Corinex Powerline and CableLAN devices are shipped using "HomePlug" as the network encryption key (NEK). The Security dialog screen allows you to change this encryption key, to set your own private NEK and apply it to the *Corinex Wireless* to Powerline Access Point. Click Apply button to make changes.

E, Corinex	<u> </u>	
	Network Encryption Key	Connect Status:
Home Status Helo IP Address IP Address IP Address	Select your local Corinex PowerLine device, which you want to setup: Local PowerLine Adapter: 00.02:E3:38:7E:6A [X1]	
Wheels Status Wavess Status Status Status Share Status	Select "Dronys frames" if you want to turn on encrystion on your. Corines Rowerine dron, the sea selected encrystic, where the network, encrystion key (e-35 character). The key is case sensitive. Encryst frames Nativork: Encrystion Key: HomePlug Mateurine	J
Se, Carines		© 2007 Corines, Corp. Mr Eights Reserve

Note: NEK must be between 4 to 24 alphanumeric characters and is case sensitive.

For detailed configuration procedures and functionality of the AP or for installation with other operating system versions, please see the *Corinex Wireless to Powerline User Guide* on the included CD-Rom.