

# WMP-G10 USER MANUAL

Revision 1.1 January 31, 2005

VIA NETWORKING TECHNOLOGIES, INC.

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## **Revision History**

Release	Date	Revision	Initials
1.0	2004-12-17	Initial release.	SHC
1.1	2005-01-31	Add FCC Interference Statement at Page20, 21,22.	YCL

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## 1. Features

### **1.1. Drivers and Applications**

- Drivers available for Microsoft Windows 95/98/ME/NT/2000/XP and all major distributions of Linux.
- Setup utility for automatic driver installation on Windows.
- Mass-production support tool.
- Mass-production application interface for custom programs.
- PATCH utility for driver customization. This utility allows the manufacturers to customize the driver packages, such as changing the drivers' icons and file names.

## **1.2. Certifications**

- "Designed for Microsoft Windows" Logo.
- Wi-Fi Certified.

### **1.3. Software Packages**

- Software package for manufacturers: A complete set of drivers and utilities.
- Evaluation package (CD version) for manufacturers: Includes MPTOOL, Winsetup, and drivers for Windows only.
- Software package for end users: Includes all drivers and utilities, except MPTOOL and PATCH.

## 1.4. Programming Guide

- All drivers are available in the binary format. Source codes are not released..
- An EEPROM layout guide is available.

## 2. Drivers and Utilities

## 2.1. Drivers

DRIVER TYPE	DESCRIPTION
NDIS 5	Supports Windows 98, 98 SE, ME, 2000, XP, and Sever 2003.
NDIS 4	Supports Windows NT 4.0.
NDIS 3	Supports Windows 95 and 95 OSR2.
Linux	Supports Red Hat Linux 6.2, 7.0, 7.1, 7.2, and 8.0.
	(Supports kernel versions 2.2 through 2.6.)
WinCE 4.2	Supports Windows CE 4.2.
WinCE 5	Supports Windows CE 5.0.
x64	Supports AMD 64-bit CPUs.

## 2.2. Utilities for end users

UTILITY NAME	DESCRIPTION
Winsetup	Automatic driver installation, uninstallation, and updating utility for Windows 95, 95 OSR2, 98, 98 SE, ME, NT 4.0, 2000, XP, and Sever 2003.
WiFiSet	Wireless configuration setup tool for Windows 95, 95 OSR2, 98, 98 SE, ME, NT 4.0, 2000, XP, and Sever 2003.

## 2.3. Utilities for manufacturers

UTILITY TYPE	DESCRIPTION			
MPTOOL	Mass-production tool for Windows 2000/XP.			
MP API	Mass-production application interface for manufacturer-specific programs.			

## 3. Software Package Information

## 3.1. Directory structure

DIRECTORY	DESCRIPTION		
/ (Root directory)	Drivers for Windows 95, 95 OSR2, 98, 98 SE, ME, NT 4.0, 2000, XP, and Sever 2003; release note; and other documentations.		
/LINUX	The Linux driver.		
/WIFISET	Wireless configuration setup tool for Windows.		
/WINSETUP	Windows driver setup utility for Windows 95, 95 OSR2, 98, 98 SE, ME, NT 4.0, 2000, XP, and Sever 2003.		
/MPTOOL	Mass-production tool and the EEPROM layout guide.		
/Win CE / CE4.2 / CE5	Drivers for Windows CE 4.2 and 5.0.		
/x64	Software for supporting AMD 64.		

## 3.2. Driver Keywords/Parameters

#### Figure 1. Properties—Advanced

VIA Netw	orking Solo	mon Wi	reless LAN /	Adapter Properties	2 🛛
VIA Netw General The fol the pro on the Propert Adhoo Anteni Conne Defau Desire Fragm Netwo Opera Pream Radio Recei RTS T Transs	Advanced Advanced lowing property perty you war right. y: Beacon Inter na Diversity for Rate to Rate to Rate to Channel d SSID ent Threshold rk Address tion Mode ble Type Control ve Buffers 'hreshold mit Buffers	mon Wi Driver ties are a it to char	reless LAN / Resources vailable for th ige on the left	Adapter Properties Power Management is network adapter. Cli , and then select its v. <u>V</u> alue: 100	ck alue
				ОК	Cancel

#### **Adhoc Beacon Interval**

Defines the beacon interval in the ad hoc mode.

#### **Antenna Diversity**

Enables or disables antenna diversity.

#### **Connection Rate**

Specifies the connection rate (in Mbps): 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54, or Auto.

#### **Default Channel**

The user-defined connection channel—applicable in the ad hoc mode and AP mode.

#### **Desired SSID**

The user-defined SSID—to be automatically connected at driver startup.

#### **Fragment Threshold**

Defines the size at which packets are fragmented.

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#### **Network Address**

The user-defined network address—overrides the network address originally set by the hardware vendor.

#### **Operation Mode**

Determines the operation mode: Infrastructure or Ad Hoc.

#### Preamble Type

Determines the acceptable preamble type: Select **Long** to accept long preambles only; select **Short** to support short preambles.

#### RadioControl

Determines whether the radio is on or off.

#### **Receive Buffers**

Defines the size of the internal driver buffers for received packets.

#### **RTS Threshold**

Defines the size at which packets are sent via the RTS-CTS mechanism.

#### **Transmit Buffers**

Defines the size of the internal driver buffers for packets to be transmitted.

## 4. Windows Utilities

### 4.1. WiFiSet

The VNT WiFiset is a Windows-based application. Its main features are listed below.

#### 4.1.1. Status

Displays the network status of the device.

#### Figure 2. WiFiset—Status

😥 VNT WiFiset		×					
<u>P</u> rofile <u>V</u> iew <u>Option H</u> elp							
Device Lists	Status   Config   Secu	rity   Site Survey   Statistic   Signal					
	State	Associated with Cisco_AP352					
	SSID	Cisco_AP352					
VIA Networking	BSSID	00:40:96:54:ee:b4					
<b>Q</b>	Network Type	Infrastructure Mode					
	Channel	5					
	Current Link Speed	5.5M bps					
	Data Rate	Auto Rate selection					
	Encryption Mode	WEP Key Absent Open Mode					
	Authentication Mode						
	Privacy Filter	Privacy Filter Accept All					
	Power Save Mode	CAM Mode					
	Fragment Threshold	2312 bytes					
	RTS Threshold	2312 bytes					
	Local MAC Address	00:06:5c:00:00:10					
	RX Antenna Selection	1					
	Tx Antenna Selection	1					
J	Device ID	3253					
Ready							

### 4.1.2. Config

Displays and controls the link configurations for the device.

#### Figure 3. WiFiset—Config

VNT WiFiset	
<u>P</u> rofile <u>V</u> iew <u>Option H</u> elp	
Device Lists       Status       Config       Security       Site Survey       Statistic       Camerica       Camerica       Camerica       Camerica       Statistic       Sta	Signal          Auto connect         Network Type         Ad Hoc Mode         Ad Hoc Mode         Infrastructure Mode         AP Mode         Radio Status         Radio Status         Radio is ON
Ready	

#### SSID

The service set identifier (SSID) is the name given to a wireless network by its administrator(s). The default value is **Any**, which allows the device to connect to any access point in the Infrastructure Mode, or to any other wireless device in the Ad Hoc Mode. The SSID can be up to 32 characters long, and is case sensitive.

#### **Power Save Mode**

Selects a power-save mode from three preconfigured settings:

- CAM (Continuous Access Mode) Highest performance with no power saving.
- Max PSP (Max Power Saving Mode) Maximum power saving with reduced performance.
- Fast PSP (Fast Power Saving Mode) Greater power saving than CAM and higher performance than Max PSP.

#### **Network Type**

Determines the type of network or mode of operation.

- Ad Hoc Mode For peer-to-peer networking with other wireless devices without routing through wired network.
- Infrastructure Mode (default) For connecting to a wired network via an access point.

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• **AP Mode** For setting up the device as an access point. Note: In order to function as an access point, your computer must be physically connected to a wired network.

#### **Radio Status**

Shows whether the radio is on or off.

#### Data Rate

Selects the rate of transmission between your computer and the access point (in the infrastructure mode) or another wireless device (in the ad hoc mode). In general, a higher transmission rate would provide a smaller coverage area, and a lower transmission rate would cover a greater distance. The default setting is **Auto Rate**, which allows the device to start at 54 Mbps and automatically lowers the transmission rate when necessary.

#### Channel

Selects the frequency channel for the transmission in the Ad Hoc Mode or AP Mode.

#### Fragment Threshold

Defines the size at which packets are fragmented. The acceptable range of values is from 256 to 2312 bytes, and the default value is 2312 bytes.

#### **RTS Threshold**

Defines the size at which packets are sent via the RTS-CTS mechanism. The acceptable range of values is from 0 to 2312 bytes, and the default value is 2312 bytes.

#### 4.1.3. Security

Controls the authentication and encryption configurations for the device.

#### Figure 4. WiFiset—Security

VNT WiFiset				
<u>P</u> rofile <u>V</u> iew <u>O</u> pti	on <u>H</u> elp			
Device Lists	Status Config	Security Site Survey Statis	tic Signal	
	Encryption state:	None 💌 Authe	entication Mode: Open	•
Networking			Key Index : 🛛	-
	Set / Not Set	Key Material	Key Size	
	WEP Key 0 :			-
	- WEP Key 1 : -			-
	│			~
	☐ WEP Key 3 :			<b>v</b>
	40-bit WEP keys -bit WEP keys : Er WEP keys : Enter (	: Enter 5 characters or 10 hex ter 13 characters or 26 hexado 29 characters or 58 hexadecim	adecimal digits (0-9, a-f, A- ecimal digits (0-9, a-f, A-F) al digits (0-9, a-f, A-F).	F). 128 . 256-bit
		Apply	11111	
Ready				

#### **Encryption state**

Determines whether Wired Equivalent Privacy (WEP) is used for data encryption.

- None (default) No encryption.
- WEP Data is encrypted with a WEP key. Up to four WEP keys can be specified. Each key can have a length of 40, 128, or 256 bits.

#### **Authentication Mode**

Determines the method of authentication.

- **Open System** (Default) A null authentication algorithm is used, which allows the device to be authenticated by any access point or other devices with an appropriate SSID.
- Shared Key A WEP key is used as a means of authentication, which allows the device to be authenticated only by access points or other devices that has the same WEP key in addition to an appropriate SSID.

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### 4.1.4. Site Survey

Displays a list of all available networks within range.

VNT WiFiset							×
Device Lists Status   Config   Security Site Survey   Statistic   Signal							
3	SSID	MAC Address	Ch.	RSSI	Privacy	BSS	Ben P 🔨
VIA	sys2_TI_d-link	00-0f-3d-0b-4b	4	-70	YES	Infrastructure	10
Networking	D-link7100AP	00-0d-88-fa-1d	1	-78	NO	Infrastructure	10
	AirPlus	00-00-04-00-0	6	-78	YES	AdHoc	10
	linux	00-0d-88-b1-1f	4	-76	YES	Infrastructure	10
	sys2_3com	00-0d-54-a0-8f	8	-70	YES	Infrastructure	10
	MN700-and	00-0d-3a-25-8	3	-84	YES	Infrastructure	10
	AirPlus	00-0d-88-c1-6e	10	-82	YES	Infrastructure	10
		00-10-18-90-1f	11	-70	YES	Infrastructure	10
	software3	00-0a-79-26-1	13	-86	YES	Infrastructure	10
	LnkSys	00-06-25-3Ъ-с	1	-66	NO	Infrastructure	10
	111	00-02-6f-21-2b	4	-82	NO	Infrastructure	10
	Cime AD257	00 40 06 54 ~~	5	02	NO	Tofootootoo	10
🛛 🔛 Join Network 🛛 🎲 Re-Scan it!							
Ready							

#### Join Network

Joins the device to the selected network.

#### Re-Scan it!

Re-scans to discover all currently available networks within range.

### 4.1.5. Statistics

Displays the real-time transmission and reception statistics of the device.

#### Figure 6. WiFiset—Statistic

VNT WiFiset						×
<u>P</u> rofile <u>V</u> iew <u>O</u> pti	on <u>H</u> elp					
Device Lists	Status   Config   Security	Site Surv	ey	Statistic Signal		
	Transmit Statistics			Receive Statistics		
VIA Naturalia a	Packets Transmitted OK	400	^	Packets Received OK	44499	^
Networking	Packets Transmitted Error	39		Packets Received Error	0	
	Unicast Packets Transmitted	296		No Buffer Count	0	
	Unicast Bytes Transmitted	39027		Unicast Packets Received	745	
	Multicast Packets Transmi	9		Unicast Bytes Received	139925	
	Multicast Bytes Transmitted	1253		Multicast Packets Received	5	Ξ
	Broadcast Packets Transm	95		Multicast Bytes Received	985	
	Broadcast Bytes Transmit	17445		Broadcast Packets Received	43749	
	One Collision Count	77	_	Broadcast Bytes Received	3587917	
	More Collisions Count	129		CRC Error Count	0	
	Transmitted Fragment Co	0		Alignment Error Count	0	
	Multicast Packets Transmi	1028		ACK Failure Count	1237	
	Failed Count	49	¥	Duplicate Packets Received	236	~
		Pause		😪 Reset		
Ready						

#### Pause

Pauses, or freezes, the currently displayed statistics. Clicking **Pause** again will resume the real-time display.

#### Reset

Resets all values to zero.

### 4.1.6. Signal

Displays the current and past values of signal strength (SS) and signal quality (SQ) for the connected network.

#### Figure 7. WiFiset—Signal



### 4.1.7. Profiles

A profile is a set of preconfigured settings for a particular network environment. Having different profiles stored in WiFiset, you can move from one network to another without having to reconfigure the network settings.

#### 4.1.7.1. Adding a new profile

Before adding the current network configuration as a new profile, make sure that your device is connected to a network and that all settings are properly configured. To add a profile in WiFiset, please follow these steps:

Step 1. Click **Profile** in WiFiset's menu bar, and then click **Add** to create a new profile based on the current network's configurations.

### Figure 8. WiFiset—Adding a new profile

rofile Select : rofile List	Cisco_AP3	52			
Profile Name	Default De	vice1(Addr:SSID)	Device2(Addr : SSID	) Device3(Addr:SSID)	Device4(Addr : SSID)
Dixo_AP352	0006	55c000010 : Cisco_A	P352 N/A:N/A	N/A : N/A	N/A : N/A

Step 2. Enter a name for the new profile, and then click **OK**.

### Figure 9. WiFiset—Profile Name

DO VNT WiFiset	×
Profile View Option Help	
Device Lists Status Coufig Security Site Survey Statistic Signal	
	×
Profile Select : Cisco_AP352	
Profile Lust Profile Name Default Device1 (Addr : SSID) Device2(Addr : SSID) Device3(Addr : SSID) D	evice4(Addr : SSID)
OK Cancel	
Add Delete Delete All Default Profile 🔽 Auto Connect	with Default Profile
Join Network 🏾 🎲 Re-Scan it	
Ready	

Step 3. The new profile is now successfully added to the **Profile List**.

#### Figure 10. WiFiset—New profile added

mfile Select : mfile List	Cisco	AP352 💌			
Profile Neme	Default	Device1 (Addr : SSID)	Device2(Addr : SSID)	Device3(Addr: SSID)	Device4(Addr : SSID)
Circo_AP352		00065e000010 : Cisco_AP352	N/A : N/A	N/A : N/A	N/A N/A
nkSyr	1	00065:000010 LukSys	18/A : N/A	N/A : N/A	N/A : N/A

#### 4.1.7.2. Default profile and automatic connection

You can configure your device to automatically connect to a network according to the default profile.

Step 1. Select a profile name from the **Profile Select** box.

Step 2. Click the **Default Profile** button.

Step 3. Select the check box for Auto Connect with Default Profile.

#### Figure 11. WiFiset—Auto Connect with Default Profile

ofile Select :	Cisco	AP352 _	Ð			
Profile Name	Defealt	Device1 (Addr	: SSID)	Device2(Addr : SSID)	Device3(Addr : SSID)	Device4(Addr:SSID)
Linco_AP352	0	00065c000010	Circo_AP352	18/A : 18/A	N/A : N/A	N/A : N/A
nkSyn		00065c000010	LakSyn	N/A : N/A	N/A : N/A	N/A : N/A
844	_	Daleta		ete All Defend	Profile V Kuto Co	meet with Default Profile

**Note:** Once the device is set to automatically connect with a netowork according to the default profile, most of the options under WiFiset's **Config** tab would become unavailable, and therefore appear dimmed—except for **Power Save Mode** and **Auto connect**. In addition, a check mark would now appear in the **Auto connect** check box.

VNT WiFiset		
<u>P</u> rofile <u>V</u> iew <u>O</u> pt	tion <u>H</u> elp	
Profile <u>v</u> iew <u>Opt</u> Device Lists VIA Networking	tion Help         Status Config       Security       Site Survey       Statistic       Signal         SSID :       LnkSys       Auto cor         Power Save Mode       CAM (Continuous Access Mode)       Network T         CAM (Continuous Access Mode)       C Ad Ho         Data Rate :       Auto Rate       Auto Rate         Channel :       Default       Radio Stat         Fragment Threshold (bytes) :       2312       Radio Stat	<b>mect</b> y <b>pe</b> c Mode cucture Mode de
Ready	RTS Threshold (bytes) : 2312	adio is ON Apply

#### Figure 12. WiFiset—Auto connect

### 4.2. WPA Networking

VT6655 supports Windows XP Wireless Zero Configuration service for connecting to a Wi-Fi Protected Access (WPA) network.

Step 1. Open Wireless Network Connection.

Figure 13. Wheless Network Connection	Figure	13.	Wireless	Network	Connection
---------------------------------------	--------	-----	----------	---------	------------



Step 2. Click a wireless network from the list of available networks, and then click **Connect**. Step 3. Enter the network key, also known as WEP key or WPA key.

<sup>(i</sup> ț <sup>3)</sup> Wireless Ne	twork Connection	5		×
Network Task	s	Choose	a wireless network	
🛃 Refresh i	network list	Click an item information.	in the list below to connect to a wireless network in range or to	get more
Set up a for a hore	wireless network ne or small office	(( <mark>- ))</mark>	Broadcom	Manual 📩 📤
	Wireless Netwo	vek Connecti	Security-enabled wireless network (WPA2) op	
Related Tasks	WIFEless Netwo	Jrk connecti		
Learn ab networki	The network 'Br network key he	oadcom' requi lps prevent un	res a network key (also called a WEP key or WPA key). A known intruders from connecting to this network.	
Change to preferred	Type the key, a	and then click (	Connect.	
🕹 Change a	Network <u>k</u> ey:		•••••	
settings	Confirm networ	k key:	•••••	
			Cancel	att
		U	😚 Security-enabled wireless network	att
		((ရာ))	linux	
				Connect

### Figure 14. Wireless Network Connection—Network key

## Appendix: Terminology

- ad hoc network A network composed solely of stations within mutual communication range of each other via the wireless medium (WM).
- access point (AP) Any entity that has station functionality and provides access to the distribution ser-vices, via the wireless medium (WM) for associated stations.
- Station (STA) Any device that contains an IEEE 802.11 conformant medium access control (MAC) and physical layer (PHY) interface to the wireless medium (WM).
- RTS (Request To Send) The frame type used to deign the RTS-CTS clearing exchange. RTS frames are used when the frame that will be transmitted is larger than the RTS threshold.
- CTS (Clear To Send) The frame type used to acknowledge receipt of a Request to Send and the second component used in the RTS-CTS clearing exchange used to prevent interference from hidden nodes.
- WEP (Wired Equivalent Privacy) The optional cryptographic confidentiality algorithm specified by IEEE 802.11 used to provide data confidentiality that is subjectively equivalent to the confidentiality of a wired local area network (LAN) medium that does not employ cryptographic techniques to enhance privacy.
- authentication The service used to establish the identity of one station as a member of the set of stations authorized to associate with another station.
- WPA (Wi-Fi Protected Access) A specification of standards-based, interoperable security enhancements that strongly increase the level of data protection and access control for existing and future wireless LAN systems.

## Federal Communication Commission Interference Statement

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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

#### **IMPORTANT NOTE:**

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

VIA Networking Technologies, Inc. declared that WMP-G10 is limited in CH1~11 from 2412 to 2462 MHz by specified firmware controlled in USA.

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#### This device is intended only for OEM integrators under the following conditions:

The antenna must be installed such that 20 cm is maintained between the antenna and users, and

The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

## End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: SVE-WMPG10".

The Label is as following:

(Front Side)



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## Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding

how to install or remove this RF module in the users manual of the end product which

integrate this module.

The users manual for OEM integrators must include the following information in a prominent location "IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna 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.