



networks@work

Quick Install Guide

Wireless Super-G BroadBand Multimedia Router

NetPassage 28G Hotspot



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1: Introduction

Public HotSpots integrated with Wi-Fi technology are rapidly becoming common in coffee shops, hotels, convention centers, airports, libraries, and other places where people gather. In these locations, a Wi-Fi network can provide Internet access to subscribers (eg. guests, visitors or customers). These people can connect either by using their own laptop computers equipped with Wi-Fi and portable computing devices, or by using Wi-Fi equipped desktop computers provided at the location. A single networked printer with a built-in print server can also be connected to the access point, to provide printing services to users.

HotSpots operate in various ways. A small public HotSpot may provide free access to its guests, or it may charge a membership, per-time or data-use connection fee. Even if the venue is providing Internet connectivity as a free value added service, it asks users to provide user and registration information before they can connect to the Internet.

This document describes how the router can be used to configure hot spots for subscribers seeking Wi-Fi Internet access. Launching and operating the hot spots via the NetPassage 28G HotSpot, the café cashiers or operators can easily print receipt with billing information, and can easily add time increments or credits to the requesting subscribers by just pressing the keypad. During a transaction, the cashier or operator can press the keypad to generate a new access key for the subscriber. When a subscriber launches his own web browser, the built-in captive portal feature (SMTP Redirection) automatically directs the subscriber to the secure login page. After entering the access key, he/she can securely surf the Internet. See **Chapter 2 Scenario for Setting up a HotSpot**.

Packaging Content

Actual product appearance may slightly differ depending on the hardware version.



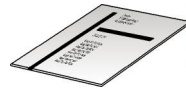
1 x Router



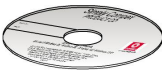
1 x RJ45 Ethernet Straight Cable



1 x External Power Adapter



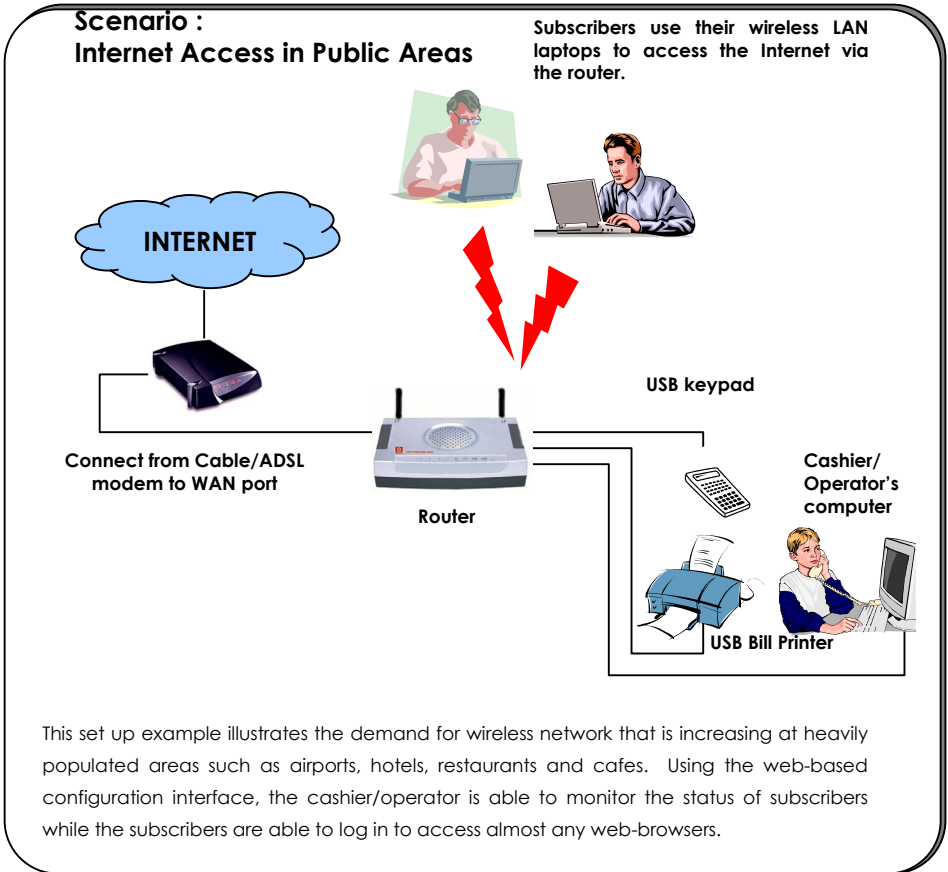
1 x Read-Me-First Note



1 x Product CD

Scenario for setting up a hotspot

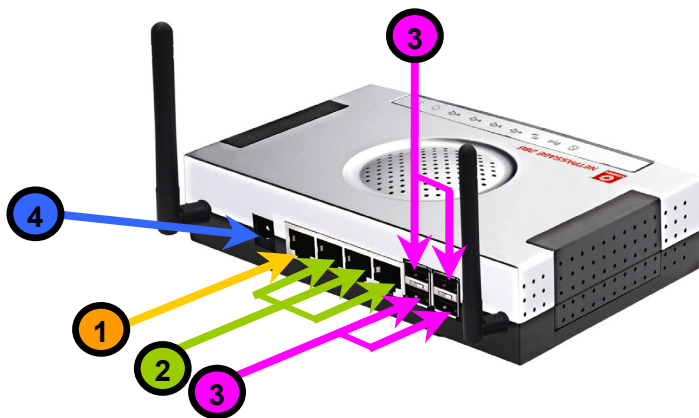
The router is suited to accomplish a simple network configuration you may have in mind. Combined with a web-based configuration interface, you can easily set up your feature-rich router for these hot spot applications.



2: Let's Get Going-Hardware Setup

Power Up in 4 Steps:

In 4 simple steps, you shall have your router wired and functional. After which, you may proceed to the software configuration and get yourself ready to surf the Internet at high-speeds!



- 1 Connect the Ethernet cable from your Cable/ADSL modem on one end, and then connect the cable to the socket labeled WAN on the router.
- 2 If you have a computer with an Ethernet connection you wish to join to the wired network, connect an Ethernet cable from that PC to any LAN ports on the router (labeled 1-3).
- 3 Connect the USB devices (such as USB printer) to the USB ports of the router.
- 4 Next, plug in the power adapter that is supplied to the main electrical supply, and connect the power plug to the socket on the router.

You may power on the device now. You are done with the hardware setup!

3: Access to Web-based Interface

There are two methods to access to the web-based interface of the router:

1. Through the Complex Utility – uConfig

You can access to the web-based interface directly without having to change the IP address of your PC.

2. Through your web browser

First, you will need to assign an IP address to your PC, such as 192.168.168.xxx, where x can be any value from 2 to 254, so that it is in the same subnet as the router. Then, enter IP address of the router in the address bar of Internet Explorer and press **Enter**.

Access to the Web interface with uConfig

Complex has developed a powerful uConfig utility that provides hassle-free access to the web-based configuration page.

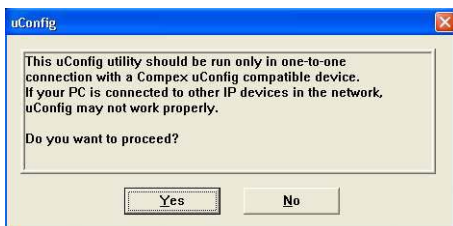
Step 1

Insert the Product CD into your CD-ROM drive.

Step 2

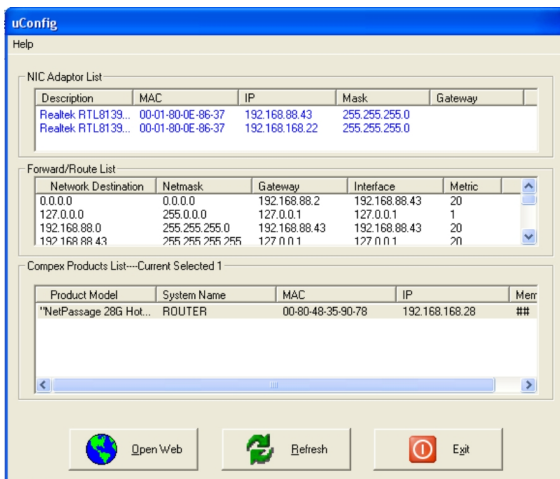
From the **Utilities** section, select to install the **uConfig** utility to your hard disk.

When the utility has been installed, double-click on the **uConfig** icon. The following screen will appear, click on the **Yes** button to proceed.



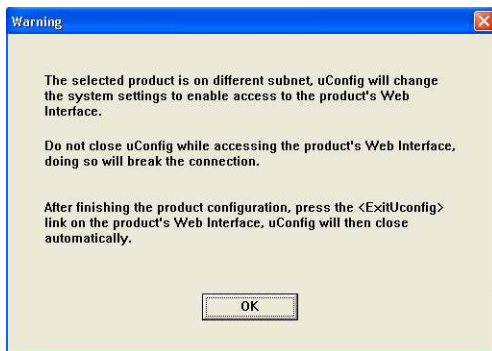
Step 3

Select **NetPassage 28G HotSpot** in the **Complex Products List** section and click on **Open Web** button. To update and display the available device(s) in the list, click on the **Refresh** button.



Step 4

This screen prompts you not to exit your uConfig program while accessing to your web-based interface, or else you will fail to connect to your device. Click on the **OK** button to proceed.



Step 5

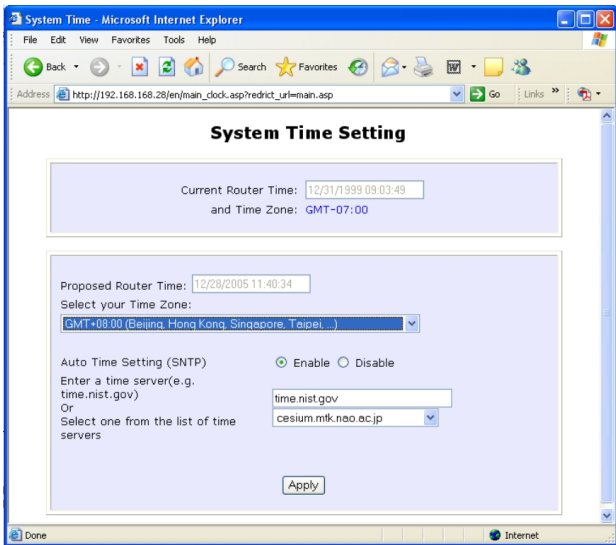
At the authentication page, click on the **LOGIN!** button to enter the main configuration page. The default password is "password".



Step 6

For the first-time login, you will be prompted with the **System Time Setting** page before accessing the router's main web page.

From the drop-down selection, choose the correct Time Zone and simply **Enable** the **Auto Time Setting (SNTP)** using a **Time Server** such as **time.nist.gov**. Alternatively, select the available time server from the list.

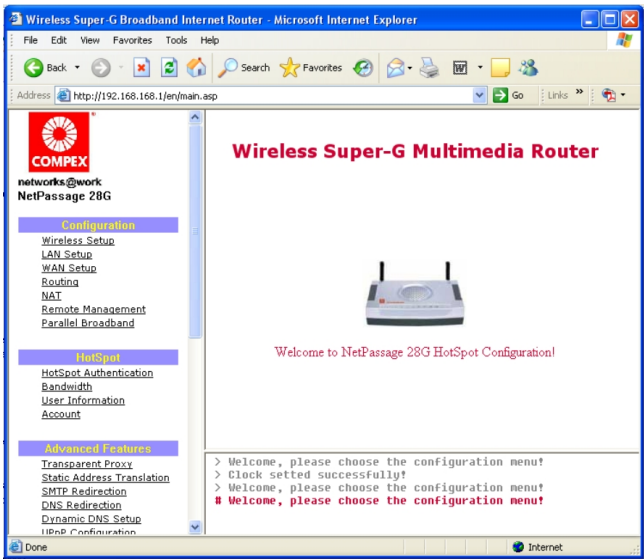


Finish by clicking the **Apply** button.

Take note that during the next and subsequent logins, you will not see the **System Time Setting** page again.

Step 7

You will then reach the home page of the router's web-based interface.



Note:
Refer to User's Manual for instructions on how to configure the router for wireless access.

Access to the Web interface manually

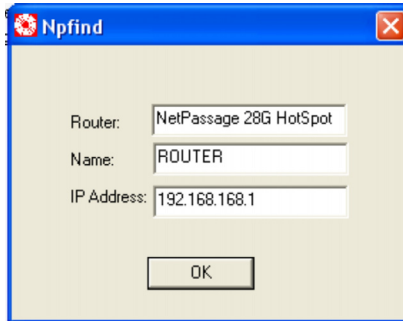
If you wish to access to the web interface manually, you need to configure the TCP/IP of your PC. Refer to User's Manual for more details.

If you have forgotten the IP address of your access point, do not worry! Compex has designed another utility program **NpFind** that helps you verify the IP address of your Compex product. You can also find this utility in the Product CD.

Step 1

From the Product CD, click on **Utilities** and select **NpFind** program to run it.

Once your router has connected to your PC, the program will automatically detect the device and display its IP address.



Step 2

Open your Internet browser, enter <http://192.168.168.1> or <https://192.168.168.1> in the address bar and hit the **Enter** key from the keyboard.



Take note that you can choose either the 'Http' or 'Https' protocol using the Web Model Management function.

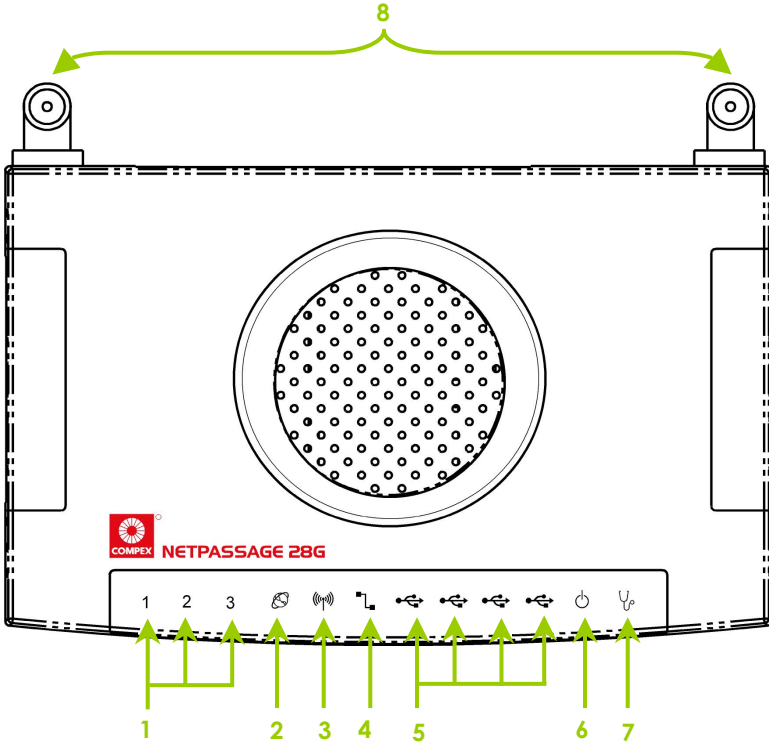
You will then reach the home page of the router's web-based interface.

Note:

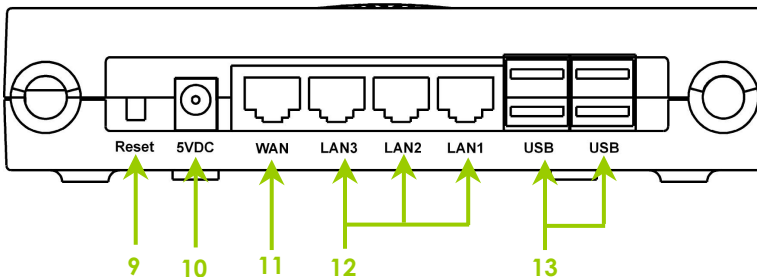
Refer to User's Manual for instructions on how to configure the router for wireless access.

4: Panel Views and Descriptions

Top View of the Router



Back View of the Router



		Name		Description	
1	LAN Link/Act LEDs 1, 2,3	Steady Green	LAN connection is enabled.		
		Flashing Green	Data transmission at LAN connection.		
2	WAN (LED)	Steady Green	The WAN connection is enabled.		
3	WLAN (1),(2) (Link/Activity LED)	Steady Green	At least one wireless link is present.		
		Flashing Green	Activity is detected in the wireless network.		
4	WAN Link/Act LED	Flashing Green	Data transmission at WAN connection.		
5	USB LEDs 1,2,3,4	Steady Green	USB device is detected.		
		Flashing Green	Data transmission at respective USB ports.		
6	Power LED	Steady Blue	The device has powered up.		
7	Diagnostic LED	Flashing Green	It indicates that the firmware is corrupted.		
8	External Antennas	Foldable, non-detachable antennas			
9	Reset (Push button)	<p>To reboot, press once.</p> <p>To reset password, press and hold the button for 5 seconds. The DIAG LED will flash fast for about 5 flashes/sec before releasing the button.</p> <p>To restore the factory default settings, press and hold the button for more than 10 seconds. The DIAG LED will flash slowly for about 10 flashes/sec before releasing the button.</p>			

10	5 VDC	5V DC power input
11	WAN (RJ45 Port)	10/100Base-T Port connects to Cable/ADSL modem.
12	LAN Ports 1,2,3	Integrated 3-port 10/100Mbps Switching (RJ45)
13	USB Ports 1, 2,3,4	Integrated USB2.0 Ports

5: Technical Specifications

Industry Standards	<p>Wired:</p> <ul style="list-style-type: none"> - IEEE 802.3 10Base-T - IEEE 802.3u 100Base-Tx - IEEE 802.3x Flow Control <p>Wireless:</p> <ul style="list-style-type: none"> - IEEE 802.11b - IEEE 802.11g
WAN Interface	<ul style="list-style-type: none"> - 1x Auto MDI/MDI-X RJ45 Ethernet Port for external Cable/ADSL modem
WAN Type	<ul style="list-style-type: none"> - Static IP - Dynamic IP - PPP over Ethernet (PPPoE) - Point to Point Tunneling Protocol (PPTP)
LAN/WLAN Interface	<p>Wired:</p> <ul style="list-style-type: none"> - Integrated 3x Auto MDI/MDI-X 10/100Mbps Switch <p>Wireless:</p> <ul style="list-style-type: none"> - Operating channels, frequency of: 11 Channels 2.400~2.4835, US, Canada 13 Channels, 2.400~2.4970, Europe 4 Channels 2.400~2.4835, France - Direct Sequence Spread Spectrum modulation, Orthogonal Frequency Division Multiplexing modulation - Data rates: 108Mbps, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps - Security: 64-bit/128-bit WEP Wireless Pseudo VLAN WPA-PSK

USB Ports	4X integrated USB ports supporting: - Print Server
IP Addressing	All Classful/Classless subnets
Built-in DHCP Server	Yes
DHCP Reservation	Yes
NAT Firewall	Yes
Stateful Packet Inspection (SPI) Firewall	Yes
Load-Balancing/ Fail-Over Redundancy	Parallel Broadband
Virtual Server	IP and Port Forwarding, De-Militarized Zone hosting
IP Packet Filtering	Time-based, TCP Port, Source IP filtering
URL Filtering	Yes
IP Routing	Static Routing Entry
VPN Client Pass-Through	PPTP, IPsec
Configuration Interface	Web-based Configuration Menus
Profile Backup and Restore	Yes
Firmware Upgradeable	Yes
Environment Requirement	Temperature: - Operating : 0°C to 40°C - Storage : -20°C to 70°C Humidity: - Operating : 10% to 80% RH - Storage : 5% to 90% RH
Physical Dimension	174mm x 104mm x 40mm (L x W x H)
Weight	~ 0.8 Kg (including power adapter)

Further Information References

For more details on the router's configuration, please refer to the User's Manual in the accompanying Product CD.

This document may become superseded, in which case you may find its latest version at: <http://www.compex.com.sg>

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Manual Revision by Ann

Manual Number: M-0481-V1.2C Version 1.2, January 2006

FCC NOTICE: This device 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 device 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 will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- ♦ Reorient or relocate the receiving antenna.
- ♦ Increase the separation between the computer and receiver.
- ♦ Connect the computer 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.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

FCC Compliance Statement: 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.

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 the 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 2.5cm (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 20cm (8 inch).

The transmitter shall not be collocated with other transmitters or antennas.

ICES 003 Statement

This Class B digital apparatus complies with Canadian ICES-003.

DECLARATION OF CONFORMITY: *Compex, Inc. declares that the product:*

Product Name: Wireless-G Broadband Multimedia Router

Model No.: NetPassage 28G conforms to the following Product Standards:

This device complies with the Electromagnetic Compatibility Directive (89/336/EEC) 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.)

Electromagnetic Interference (Conduction and Radiation): EN 55022 (CISPR 22)

Electromagnetic Immunity: EN 55024 (IEC61000-4-2,3,4,5,6,8,11)

Low Voltage Directive: EN 60 950: 1992+A1: 1993+A2: 1993+A3: 1995+A4: 1996+A11:1997.

Therefore, this product is in conformity with the following regional standards: FCC Class B: following the provisions of FCC Part 15 directive; **CE Mark:** following the provisions of the EC directive.

DECLARATION OF CONFORMITY: *Compex, Inc. declares that:*

The wireless card in this product 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:

EMC Standards: FCC: 47 CFR Part 15, Subpart B, 47 CFR Part 15, Subpart C (Section 15.247); CE: EN 300 328-2, EN 300 826 (EN 301 489-17)

Therefore, this product is in conformity with the following regional standards: FCC Class B: following the provisions of FCC Part 15 directive; **CE Mark:** following the provisions of the EC directive.

Manufacturer's Name: Compex Systems Pte Ltd

Address: 135 Joo Seng Road, PM Industrial Building, #08-01, Singapore 368363

WARRANTY REGISTRATION CARD

Register via the Internet at <http://www.cpx.com>
or <http://www.compex.com.sg>

[M-0088-V2.4C]



To activate the warranty, please complete this card and return to Compex within ninety (90) days from the date of purchase.

Please e-mail this warranty card to support@compex.com.sg.

Product:	Purchase Date:	Model:	Serial No:
Name:		E-mail:	
Company:			
Address:			
Postal/Zip Code:		Country:	
Phone: ()			

Note:

For purchases within U.S.A and Canada, please fax to Compex, Inc. at (714) 482 0332

For purchases outside U.S.A and Canada, please fax to Compex Systems Pte Ltd at (65) 6280-9947

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