

Experience the power of one
Ubigate iBG1003™



Quick Start Guide



www.samsungnetwork.com

The purposes of Safety Concerns are to ensure user's safety and to prevent property losses.
Please read this document carefully for proper use.

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This manual should be read before the installation and operation, and the operator should correctly install and operate the product by using this manual.

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If you have a question for the content of this manual or want to obtain further information on the updated manual, please contact the homepage below.

Homepage: <http://www.samsungdocs.com>



GENERAL USER INFORMATION

Radio Frequency Interference

The Ubigate iBG1003 equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to FCC Part 15 Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own risk.

FCC Requirements

The Ubigate iBG1003 equipment complies with FCC Part 68 Rules and requirements adopted by Administrative Council for Terminal Attachment (ACTA).

FCC Part 68

The FCC Part 68 label is located on the bottom of the chassis.
The label contains:

- Product Identifier Number
- FCC Registration Number
- Ringer Equivalence Number (REN)



NOTE

If requested, this information must be provided to your telephone company.

Unauthorized Modifications

Any change or modifications performed on this equipment that are not expressly approved in writing by SAMSUNG ELECTRONICS, CO., LTD. could cause non-compliance with the FCC rules and void the user's authority to operate the equipment.

Telephone Connection Requirement

A plug and jack is used to connect this equipment to the premises wiring and telephone network must comply with the FCC Part 68 rules and requirements adopted by the ACTA.

A compliant telephone cord and modular plug is provided with this product which is designed to connect to a compatible Standard Modular jack.

Connection to the telephone network should be made by using standard modular telephone jacks, type RJ-11C. The RJ-11C plug and/or jacks used must comply with the FCC Part 68 rules.

CIRCUIT TYPE	PORT TYPE	FACILITY INTERFACE CODE	NETWORK JACK
LOOP START LINE	FXO T1E1	02LS2 04DU9.DN 04DU9.1KN 04DU9.1SN 04DU9.1SN (PRI)	RJ11C RJ48C
DID LINE	FXS T1E1	02RV2.T 04DU9.BN	RJ11C RJ48C
E & M TIE LINE	T1E1	04DU9.BN	RJ48C

Ringer Equivalence Number

The REN is used to determine the number of devices to be connected to a telephone line. If the total allowable REN load is exceeded, the phone circuit may fail to ring. In most cases, the total REN for a telephone line should not exceed Five (5).

Contact Local Telephone Company, to be certain about the number of devices connected to a line, which is determined by the total REN.

For earlier products, the REN is separately shown on the label.

Incidence of Harm

The telephone company will notify you in advance about the temporary discontinuation of service, if the Ubigate iBG1003 equipment is causing harm to the telephone network.

In case advance notification is not feasible, the telephone company will notify the customer as soon as possible and you will also be advised about your right to file a complaint with the FCC, if it is necessary.

Changes to Telephone Company Equipment or Facilities

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

Service Center

If you need assistance during troubleshooting, please contact our local office SAMSUNG ELECTRONICS, CO., LTD. for repair or warranty information.

If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

Field Repairs

Only technicians certified on the Ubigate iBG1003 are authorized by SAMSUNG ELECTRONICS, CO., LTD. to perform system repairs. Certified technicians may replace modular parts of a system to repair or diagnose trouble. Defective modular parts can be returned to SAMSUNG ELECTRONICS, CO., LTD. for repair.

General

Connection to party line service is subject to state tariffs. Contact the State Public Utility Commission, Public Service Commission or Corporation Commission for information.

Direct Inward Dialing ('DID')

If the equipment is not operating as per the **Proper Answer Supervision** mentioned in FCC Part 68 rules, then it is a violation.

Rules of PROPER ANSWER SUPERVISION:

1. On the following DID calls, the Equipment returns Answer Supervision to the Public Switched Telephone Network (PSTN)
 - Answered by the called station.
 - Answered by the attendant.
 - Routed to a recorded announcement that can be administered by the Customer Premises Equipment (CPE) user.
 - Routed to a dial prompt.
2. This equipment returns answer supervision on all DID calls forwarded to the PSTN.
Permissible exceptions are:
 - A call is unanswered.
 - A busy tone is received.
 - A reorder tone is received.

Equal Access Requirements

Through the use of access codes, this equipment is capable of providing user's access to interstate providers of operator services. Modification of this equipment by call aggregators to block access dialing codes is a violation of the Telephone Operator Consumers Act of 1990.

Electrical Safety Advisory

Parties responsible for equipment requiring AC power should consider including an advisory notice in their customer information suggesting them to use a surge arrestor. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources. This has been identified as a major nationwide problem.

Music on Hold Warning



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Direct Inward System Access (DISA) Warning

The lines used for the DISA feature must have the disconnected Supervision option provided by the telephone company.



As it is impossible to control who may access your DISA line it is suggested that you do not turn this feature on unless you intend to use it. If you do use this feature, it is good practice to frequently change pass codes and periodically review your telephone records for unauthorized use.

Safety Warnings



High touch current earth connection is essential before making telecommunication network connection.



Energy Hazard-careful treatment is needed.



Every wire for communication should be larger than 26 AWG.



Double pole/neutral fusing.

Underwriters Laboratories

The Ubigate iBG1003 system has been tested to comply with Safety Standards in the United States and Canada. This system is listed with Underwriters Laboratories. The cUL Mark is separately shown on the label.

Installation Safety Guidelines and Warnings

Safety Recommendations

The Safety Warnings that appear in this document (such as the one below) indicate a procedure that can harm you if not done correctly.



Electric hazard exists. Verify the power is turned off. Do not work on energized equipment. Working on energized equipment can result in serious electrical shock.



To avoid electric shock, do not connect Safety Extra-Low Voltage (SELV) circuits (found in LAN ports) to Telephone-Network Voltage (TNV) circuits (found in WAN ports).



This equipment must be installed and maintained by properly trained service personnel. Make sure the proper electrical service is available before plugging the unit and turning it on. Disconnect the telecommunication lines before unplugging the main power connector.

Cover Panels

Do not operate the Ubigate iBG1003 with missing blank faceplates and cover panels. These covers prevent exposure to hazardous voltages and currents inside the chassis. They are important to maintaining proper air flow through the chassis. They also prevent electromagnetic interference (EMI) that might disrupt other equipment.



Laser radiation and EMI are present when the router cover panel is open.

Electrostatic Discharge (ESD) Warning

Observe the following guidelines to minimize the potential for Electrostatic Discharge (ESD) damage, which can cause intermittent or complete component failures.



When handling Ubigate iBG1003 or its components, wear grounding wrist straps to avoid ESD damage to the equipment. Do not directly touch the backplane with your hand or any metal tool, or you could shock yourself.

1. Always use an ESD wrist strap or ankle strap, and verify that it is in direct contact with your skin. Avoid contact between the component and your clothing as it causes ESD damage.
2. When handling any component that is removed from the chassis, verify that the equipment end of your ESD strap is attached to one of the ESD points on the chassis.

3. Use care when installing or uninstalling modules or interface cards. Tighten the captive installation screws to ensure a proper connection when inserting modules or interface cards.

4. When removing or installing a component, always place it component-side up on an antistatic surface, in an antistatic card rack. If you are returning a component, place it in an electrostatic bag before packing it.



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CHAPTER 1. Verifying the Ubigate iBG1003

Inspecting the Ubigate iBG1003

Remove all the packing material and boxes from the shipping crate very carefully.



NOTE

The router is maximally protected inside the shipping crate. Do not unpack it until you are ready to begin installation.

A packing list is included in each shipment. The packing list specifies the part numbers and descriptions of each part in the shipment.

Verify the parts received against the list.

Your package contains the following items:

- Ubigate iBG1003 Router
- Console cable DB-9 to RJ-45 cable adapter
- One UTP Ethernet cable
- Rack-mount package (optional), including.
 - two 19-inch rack-mount brackets
 - eight bracket screws

- Ground screw (including lug and washer)
- Ubigate iBG1003 Quick Start Guide
- Ubigate iBG1003 Manual CD

If any part is missing or damaged, contact Samsung Technical Support:
http://www.samsung.com/global/business/telecomm/footer/Footer_ContactUs.html

Save the shipping crate cover, pallet, and packing materials in case you need to move or ship the router at a later time.

Overview of Ubigate iBG1003 Router


This section describes front and rear side components of the Ubigate iBG1003. Additional information is also provided about external cables, wiring, and connection points.

Ubigate iBG1003 Front Side

The front side of the Ubigate iBG1003 has LEDs to indicate the iBG1003 routers performance and operation status, as shown in figure below.



Proper LED status is shown in the following table.

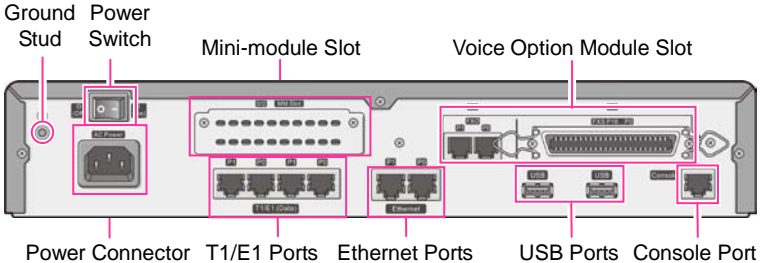
LED	Indication & Color	Description
 (Power)	Solid blue	Power supply installed and operating normally.
	Amber	Power supply installed but power fault condition detected.
	Off	Power supply not present or Power supply malfunctioning.
SYS	Solid green	System is operating normally.
	Solid red	System is not operating normally.
	Amber	System diagnostic mode.
	Off	Router is not receiving power.

(Continued)

LED	Indication & Color	Description
IOM	Solid green	IOM (Internal Option Module) card present and operational.
	Solid red	IOM card present but not operational.
	Off	IOM card not present.
FAN	Solid green	Fan is operating properly.
	Solid red	Fan present but malfunctioning.
	Off	Fan has been stopped by user configuration.
P0~P3 (T1/E1)	Solid green	T1/E1 port is operating normally.
	Solid red	T1/E1 port cable is not connected properly or a critical alarm has been detected.
	Amber	User alarm detected.
	Off	System is not operating normally or port is disabled.
Link0, 1 (Ethernet)	Solid green	Ethernet port link is detected.
	Off	Ethernet port link is not detected.
Act0, 1 (Ethernet)	Blinking Amber	Blinking Amber indicates transmit/receive activity with speed 10/100 Mbps.
	Off	No activity.

Ubigate iBG1003 Rear Side

Ubigate iBG1003 rear side has several interface ports and slots as shown in figure below. Power connector, power switch, and ground stud are also located in the rear side.



Connector	Description
Ground stud	A screw hole for grounding lug
Power switch	Switch to turn on or off the power supply
Power connector	AC power connector
Mini-module slot	An optional ADSL module or 4-port Fast Ethernet switch module can be plugged into this slot.
Voice option module slot	A voice option module can be plugged into this slot. One is pre-assembled in the factory in order to meet different deployment needs. The following voice option modules are available: - 2 FXO + 4 FXS - 2 FXO + 8 FXS - 2 FXO + 16 FXS - 2 FXO + 2 T1/E1 - 2 T1/E1 + 4 FXS
T1/E1 ports	T1/E1 WAN connection
Ethernet ports	Fast Ethernet LAN connection
USB ports	Supports USB2.0 interface
Console port	Serial port for local monitoring and configuring



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CHAPTER 2. Ubigate iBG1003 Installation

Installing the Ubigate iBG1003

This section describes how to prepare the Ubigate iBG1003 for operation either as a desktop or a rack-mounted unit.



NOTE

Read 'Installation Safety Guidelines and Warnings' before you start installing the router.

Desktop Installation

For installing chassis, you must secure unrestricted airflow for chassis cooling. Place the Ubigate iBG1003 router on a clean flat stable surface with at least 18 by 19 inch of clear space to allow sufficient room for interface cabling, power cord clearance, and adequate ventilation.



CAUTION

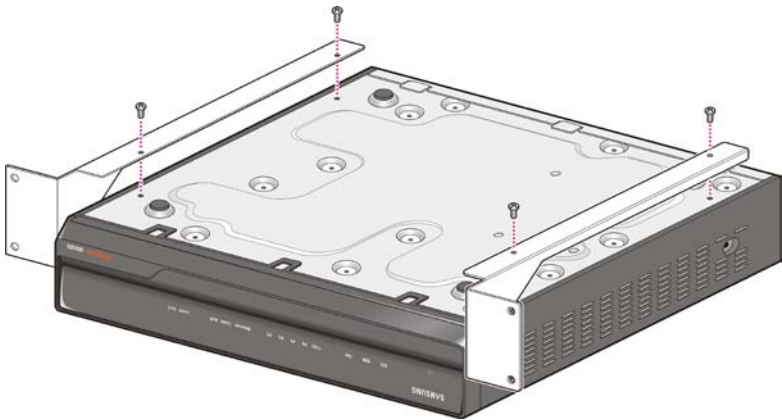
Do not place anything on top of the router that weighs more than 10 pounds (4.5 kg), and do not stack routers on a desktop.

Rack Mount Installation

Attaching Rack-Mount Brackets

Before installing the router on a rack, you need to attach brackets to the router. The brackets can be ordered separately.

1. Attach the mounting brackets to the router as shown in figure below, using the 4 of M4xL8 screws included.

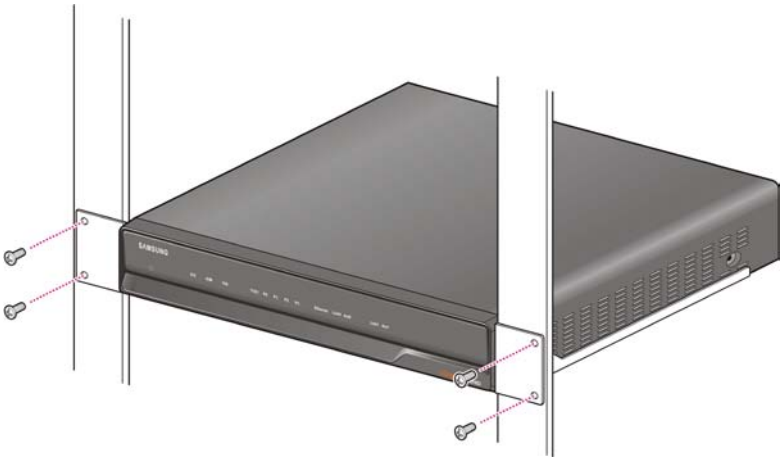


2. Attach the second bracket to the opposite side of the router.
Use a number 2 Phillip screwdriver to install the bracket screws.

Installing in a Rack

After you have attached the brackets to the router, use the screws provided with the rack to install the chassis in the rack.

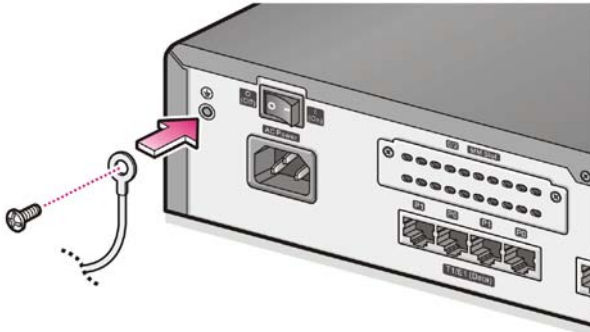
1. Align the bracket holes of the router with the desired holes of the rack.
2. Attach the Ubigate iBG1003 to the rack according to the instructions provided by the rack manufacturer.



Grounding the Ubigate iBG1003

You must connect the chassis to a reliable earth ground as shown in below figure. Verify the following:

- The grounding cable is correctly installed
- It does not touch or block access to router components.
- It does not drape when people accidentally trip on it.





CHAPTER 3. Connecting the Ubigate iBG1003



When handling Ubigate iBG1003 or its components, wear grounding wrist straps to avoid ESD damage to the equipment. Do not directly touch the backplane with your hand or any metal tool, or you could shock yourself.

Connecting the Ubigate iBG1003

This section describes procedures to connect various interfaces and console port of the Ubigate iBG1003. Follow the procedures for interfaces appropriate for your network facility environment.

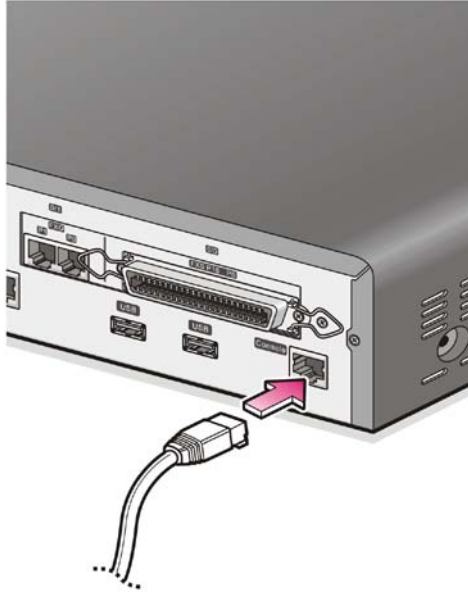
Console Port

A terminal (VT-100 or equivalent) or workstation with terminal emulation software can be used for the operator console.

To use a system console to configure and manage the router, connect it to the console port of the Ubigate iBG1003. One RJ-45-to-DB-9 adapter cable is provided with the router.

To connect the console cable:

1. Plug the RJ-45 end of the cable into the console port on the Ubigate iBG1003 as shown in below figure.

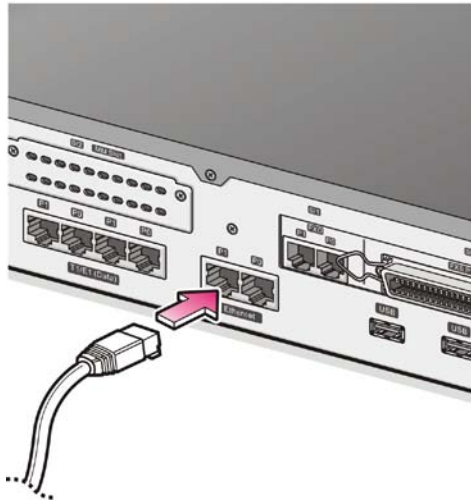


2. Plug the other end of the cable which has the adapter with the female DB-9 connector to the communication port on the workstation or terminal.
3. Configure the workstation or the terminal for 9,600 bps, 8 data bits, 1 stop bit, no parity, and no flow control.

Ethernet Port

The Ubigate iBG1003 has two 10/100 Mbps Ethernet ports. Use a Category 5 (minimum) Ethernet cable with RJ-45 connectors to connect to the network via an Ethernet port.

1. Plug one end of the Ethernet cable into the appropriate Ethernet port on the target router.



2. Plug the other end of the cable into the network device. Make sure that the cable connectors are locked and secure in the ports.

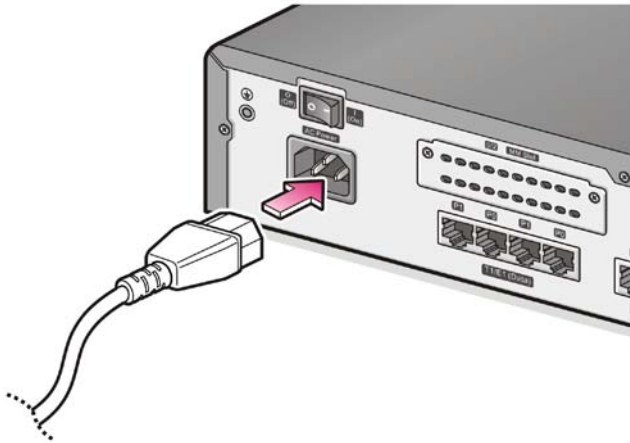
Powering Up the Ubigate iBG1003

The Ubigate iBG1003 has a 72 Watts AC power supply module.

Connecting AC Power

To connect the AC power cord to the router:

1. Connect the AC power connector to the power supply.
2. Connect the other end to a grounded power receptacle rated for the Ubigate iBG1003.



Applying Power

Before applying power to an Ubigate iBG1003 router, make sure that the appropriate procedures have been completed and that an operator console has been connected to the router.

To apply power to the Ubigate iBG1003:

1. Ensure that the Ubigate iBG1003 is connected to a power source.
2. Switch the rocker switch on the Ubigate iBG1003 rear side to the on position (|)

Then, the fan starts, the LEDs start to blink in different colors, and the Ubigate iBG1003 performs a self test. On successful completion of the self test, the system (SYS) LED will indicate **Green** and the other LEDs will be in various states.



NOTE

This is a normal condition when the router is not configured for specific network line conditions.

The login prompt is displayed on the console screen.



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CHAPTER 4. Getting Started

Initial Administrator Login

1. Verify that the router is powered on, as described in Chapter 3. Once done, the login prompt is displayed on the console screen.
2. To login, enter default login ID and password for the administrator.
 - The default login ID for the administrator is '**samsung**'.



NOTE

The user can change the login ID to suit his/her needs after the initial login.

- The default password for the administrator is '**samsung**'.



NOTE

The password has to be changed as soon as possible to ensure that only authorized access to the system is allowed.

The login sequence and related prompts are shown below.

```
login: samsung
password: samsung

Router#
```



NOTE

For more information about command usage, see the 'Ubigate iBG series Command Reference'.

Changing the Administrator Login ID

This section describes how to change the administrator login ID.



NOTE

The default login ID for the administrator is 'samsung'. For security reasons, it is strongly recommended to change the login ID as soon as possible.

To change the login ID, follow the steps below:

1. Enter the configuration mode by executing the following command.

```
Router# configure term
```

2. Change the administrator login name as shown below.

```
Router/configure# admin_name SABob
```



NOTE

This example changes the login ID to SABob.

3. A confirmation message, 'Administrator account name changed to SABob' is displayed.

Changing the Administrator Password

This section describes how to change the administrator password.



NOTE

The default password for the administrator is 'samsung'. For security reasons, it is strongly recommended to change the password as soon as possible.

To change the password, follow the steps below:

1. Execute the 'password' command.

```
Router# password
```

The system prompts for the current user name.

2. Type 'samsung', and press Enter. The system prompts to enter the old password.
3. Type 'samsung', and press Enter. The system prompts to enter a new password.
4. Type a new password, and press Enter. The system prompts you to verify the new password.
5. Type the new password again, and press Enter. A message appears, confirming that the password has been changed.

Changing the System Host Name

This section describes how to assign a system host name, which will become the Command Line Interface (CLI) prompt name.

To configure the host name, follow the steps below:

1. Enter the configuration mode by executing the following command.

```
Router# configure term
```

2. Type 'hostname' followed by the new host name as shown below and press Enter.

```
Router/configure# hostname Samsung
```



NOTE

In the above example, the new host name is Samsung.

3. The CLI prompt changes to **Samsung**, accordingly.

```
Samsung/configure#
```

Date and Time

The system date and time can be set using the UTC (Universal Time Coordinated), date and time commands.



NOTE

It is strongly recommended to change the date and time into the current values.

Setting the time using UTC command

Specify the time zone offset ahead (+) or behind (-) the time in GMT (Greenwich Mean Time). Enter the number of hours and minutes ahead or behind the GMT.

For example, to set the local Pacific Standard Time to UTC time, type as shown below and press Enter.

```
Router/configure# utc - 08 00
```

Setting the date using Date command

To set the date, enter in the format of 'MM DD YYYY' (Month Day Year).

For example, to set the date to April 30, 2005, enter as shown below and press ENTER.

```
Router/configure# date 04 30 2005
```

Setting the time using Time command

To set the time, enter in the format of 'HH MM SS' (Hour Minute Second).

For example, to set the time to 18:14:30, enter 'time 18 14 30' as shown below and press **ENTER**.

```
Router/configure# time 18 14 30
MON OCT 24 18:14:30 2005
Router/configure#
```

Adding Users

The administrator (Level 1) can add or remove the users and provide user rights, i.e. access control. The administrator can add up to 16 users including the administrator accounts and assign each user with an access level 1~4. Only the administrator (Level 1) can add, modify, or remove this information.

To add a new user, follow the steps below:

1. Enter the configuration mode by executing the following command.

```
Router# configure term
```

2. Type 'user' followed by the user name and access level (optional) as shown below.

```
Router/configure# user John level 2
```



NOTE

In this example, the user name is John and access level is 2.

- Then, the system prompts you to enter a new password.
3. Enter a new password.
 4. The system confirms that the password is set and the user is added. You can use the 'show user_accounts' command to view user information.

Removing Users

The administrator can remove the configured user name from the system. To remove a user, follow the steps below:

1. Enter the configuration mode by executing the following command.

```
Router# configure term
```

2. Type 'no user', followed by the user name and press **Enter**.

```
Router/configure# no user John
```

3. The specified user is removed from the system. You can use the 'show user_accounts' command to view user information.

Verifying the Hardware Configuration

To view the current hardware configuration:

1. Execute the 'show chassis' command.

```
Router# show chassis
```

2. Execute the following command as shown below.

```
Router# show version  
Router# show running-config
```

Initializing Configuration

To reset to factory default configuration, you need to clear the contents of the system.cfg file. In order to do this, execute the 'clear cfg_file' command. Then, reboot the system by executing the 'reboot' command.



NOTE

After following the steps described above, the system.cfg file no longer exists. Subsequently, an error message, 'file not found' is displayed upon rebooting the system. This message will not impact operation, and it should be ignored. You can generate the system.cfg file by executing the 'save local' command.



NOTE

The 'clear cfg file' command does not remove user account information since they are not stored in the system configuration file.





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WEEE SYMBOL INFORMATION



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

BATTERY SYMBOL INFORMATION



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Ubigate iBG1003™ Quick Start Guide

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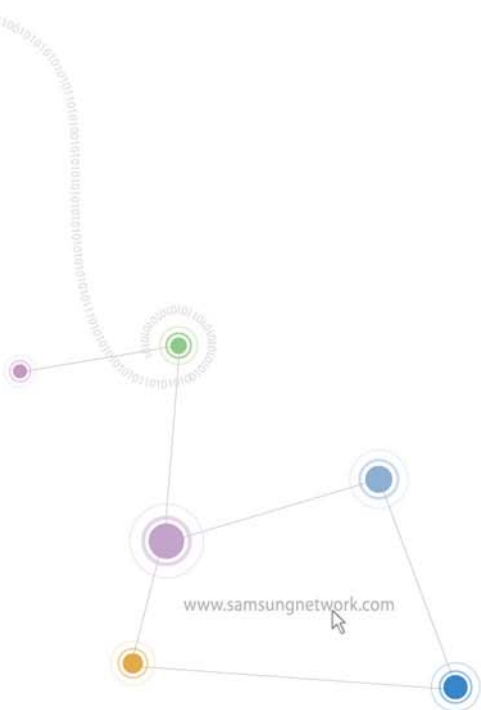
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Quick Start Guide



Homepage
www.samsungnetwork.com



Part No. : EQ68-00016A(Ed.02)
Printed in Korea

