G.SHDSL.bis Bridge Router

GRT-501 / GRT-504

Quick Installation Guide

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Overview

Thank you for purchases the Planet GRT-501 or GRT-504. The GRT-501 and GRT-504 are the G.SHDSL.bis routers that comply with ITU-T G.991.2 standard and provide affordable, flexible, efficient Internet access solution for SOHO and Small Medium Business environment. The GRT-501 and GRT-504 support business-class, multi-range from 192 Kbps to 5.7 Mbps (2-wire) and 384 Kbps to 11.4 Mbps (4-wire) symmetric data rates by using existing telephone copper wires.

This quick installation guide includes the following sections:

- 1. Package Content
- 2. Hardware Description: Hardware outlook and panel description
- 3. Quick Installation: Quick setup through Web browser
- 4. Further Configuration

1. Package Content

GRT-501 / GRT-504

- G.SHDSL.bis Bridge Router x 1
- Power Adapter x 1
- Quick Installation Guide x 1
- User's manual CD x 1
- Console Cable x 1
- RJ-45 to RJ-11 Cable x 1

If any of the above items are missing or damaged, please contact your local dealer for support.

2. Hardware Description

GRT-501

► Front Panel



► LED / Port Definition

PWR		Green	ON	The power adaptor is connected to GRT-501		
WAN		Green	ON	SHDSL.bis connection is established		
	LINK	Green	Blink	SHDSL.bis is handshaking		
	ACT	Green	Blink	Transmit data or receive data over SHDSL.bis		
				IIIK		
	10M/ ACT	Green	ON	LAN Port connect with 10M Ethernet link		
		Green	Blink	LAN Port Transmit or receive data in 10M mode		
	100M/	Green	ON	LAN Port connect with 100M Ethernet link		
	ACT	Green	Blink	LAN Port Transmit or receive data in 100M mode		
ALM		Red	ON	SHDSL.bis line connection is dropped		
		Red	Blink	SHDSL.bis self test		

► Rear View



► Port Definition

DC-IN	Power connector with 9V DC 1.0A
LAN	Ethernet 10/100BaseT for LAN port (RJ-45)
CONSOLE	RS-232C (DB9) for system configuration and maintenance
LINE	SHDSL.bis interface for WAN Port
RST	The reset button, the router restore the default settings when press this button until reboot.

GRT-504

► Front Panel



► LED / Port Definition

PWR		Green	ON	The power adaptor is connected to GRT-504
WAN		Green	ON	G.SHDSL.bis connection is established
	LINK	Green	Blink	G.SHDSL.bis is handshaking
	ACT	Green	Blink	Transmit data or receive data over G.SHDSL. bis link
	1/2/3/4	Green	ON	LAN Port connect with Ethernet link
	1/2/3/4	Green	Blink	LAN Port Transmit or receive data
ALM		Red	ON	G.SHDSL.bis line connection is dropped
		Red	Blink	G.SHDSL.bis self test

► Rear View



► Port Definition

DC-IN	Power connector with 9V DC 1.0A
LAN (1/2/3/4)	Ethernet 10/100Base-TX for LAN port (RJ-45)
CONSOLE	RS- 232C (DB9) for system configuration and maintenance
LINE	G.SHDSL.bis interface for WAN Port
RST	The reset button, the router restore the default settings when press this button until reboot.

3. Quick Installation

Before proceeding any further, please make sure correct network cable is used for connecting the LAN port from your computer to GRT-501 or GRT-504. The LAN LNK indicator on the front panel shall light if a correct cable is used.

By default, the GRT-501 or GRT-504 is shipped with its DHCP Server function enabled. This means the client computers on the LAN network including the Administrator PC can set their TCP/IP settings to automatically obtain an IP address from the GRT-501 or GRT-504. Starting your web browser and connecting to the management IP of GRT-501 or GRT-504, wait for the login screen appears. When you see the login screen, enter the correct user name and password to login the GRT-501 or GRT-504.

• Open web browser and type **http://192.168.0.1** in the browser's address box. This number is the default IP address for this device. Press Enter.



A user name and password prompt will appear. The default user name and password are "root". Click OK button and you will login the GRT-501 or GRT-504 for management.





The factory default management IP and subnet mask of GRT-501 or GRT-504 is 192.168.0.1 and 255.255.255.0 respectively. And the default user name and password is "root".

This chapter provides quickly setup procedure for four major connection modes:

- Section 3.1: Bridge Mode
- Section 3.2: Routing Mode for PPPoA and PPPoE
- Section 3.3: Routing Mode for IPoA or EoA
- Section 3.4: LAN to LAN Bridge Mode

Please verify your connection mode and check the corresponding section to quickly install your GRT-501 or GRT-504.

3.1 Bridge Mode



Web UI Configuration

<u>Step 1.</u>

Click **Basic** on the left menu, the BASIC setting screen will display. And then select **Bridge** and **CPE** Side to setup Bridge mode of the Router and then click **Next** for the next setting.

This product can be setup as two G.SHDSL.bis working mode: **CO** (Central Office) and **CPE** (Customer Premises Equipment). For connection with DSLAM, the G.SHDSL.bis working mode is **CPE**.



Step 2.

Enter Parameters in BASIC - STEP2:

LAN

IP: 192.168.0.1

Subnet Mask: 255.255.255.0

Gateway: 192.168.0.254 (The Gateway IP is provided by ISP)

Host Name: SOHO

Some of the ISP requires the **Host Name** as identification. You may check with ISP to see if your Internet service has been configured with a host name. In most cases, this field can be ignored.

WAN1

VPI: 0

VCI: 32

Click LLC, and then Click Next for next setting.

Home	Basic	Advanced	Status	Admin	Utility
		1	BASIC	- STEP	2
LAN:					
IP Add	tress: 192 , 16	8.0.1			
Subnet N	fask: 255 25	5 255 0			
Gate	way: 192 . 16	8.0.25	4		
Host N	ame: SOHO				
WAN1:					
VPI:	0	7			
VCI:	32				
Encap.:	OVC-mux €LL	с			
				Desert	
		Back	Cancel	Reset	Next

<u>Step 3.</u>

The screen will prompt the new configured parameters. Check the parameters and click **Restart**. The router will reboot with the new setting or **Continue** to configure another parameters.



3.2 Routing Mode for PPPoA and PPPoE with IP Sharing

Web UI Configuration

Step 1.

For Route Mode with Point-to-Point Protocol over ATM and Ethernet, follow the following setting. First, select **ROUTE** and **CPE Side**, and then click **Next** for setting others parameters.

Home	Basic	Advanced	Status	Admin	Utility
		1	BASIC -	STEP1	
Operation Mo	de:				
System M	Iode: © ROUTE	O BRIDGE			
SHDSL M	Iode: O CO Side	CPE Side	>		
		Ca	ncel Rese	et Next	1

Step 2.

The embedded DHCP server assigns network configuration information at most 253 users accessing the Internet in the same time.

Click **Next** for next setting.

Home	Basic	Advanced	Status	Admin	Utility
		B	ASIC -	STEP2	
LAN:					
	IP Type: 💿	Fixed C Dynamic	(DHCP Client)		
	IP Address: 192	2 . 168 . 0	. 1		
3	Subnet Mask: 255	5 . 255 . 255	. 0		
	Host Name: SO	HO			
Trigger D	HCP Service: C	Disable 🔍 Server	C Relay		
		Back	Cancel	Reset	Next

<u>Step 3.</u>

Assign the IP pool for your DHCP server. Click Next.

<u>Step 4.</u>

Enter the Parameters in BASIC - STEP4

VPI: 0

```
VCI: 32
```

AAL5 Encapsulation: LLC

Protocol: PPPoA + NAT or PPPoE + NAT

Click **Next** to setup the ISP setting.



<u>Step 5.</u>

- 1. Enter user name provided by ISP: test
- 2. Enter Password provided by ISP: test
- 3. Re-enter Password for confirmation: test

The user name and password provided by your ISP.

4. Idle Time: 10

If you want your Internet connection to remain on at all time, enter 0 in the Idle Time field.

5. IP Type: Dynamic

6. Click Next.

Home	Ba	sic	Advanced	Status	Admi	n l	Itility
			E	BASIC -	STEP	4	
SP1:							
	Usemame:	test					
	Password:	****					
Passwo	ord Confirm:	****					
	Idle Time:	10	minutes				
	IP Type:	Dynamic	•				
1	IP Address:	192.168.	1.1				
			Back	Cancel	Reset	Next	1

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Step 6.

The screen will prompt the new configured parameters. Check the parameters and click **Restart**. The router will reboot with the new setting or **Continue** to configure another parameters.



3.3 Routing Mode for IPoA or EoA

Web UI Configuration

Step 1.

For Route Mode with IPoA and EoA, follow the following setting. First, select **ROUTE** and **CPE Side**, and then click **Next** for setting others parameters.

Home	Basic	Advanced	Status	Admin	Utility
		1	BASIC -	STEP1	
Operation Mo	de:				
System M	lode: 📀 ROUTE	O BRIDGE			
SHDSL M	lode: O CO Side	CPE Side	>		
		Ca	ncel Rese	et Next	

<u>Step 2.</u>

The embedded DHCP server assigns network configuration information at most 253 users accessing the Internet in the same time.

Click Next for next setting.

Home	Basic	Advanced	Status	Admin	Utility
		E	BASIC -	STEP2	
LAN:					
	IP Type: 📀	Fixed O Dynamic	c(DHCP Client)		
	IP Address: 192	. 168 . 0	1		
S	Subnet Mask: 255	. 255 . 255	5 . 0		
	Host Name: SO	но			
Trigger D	HCP Service: O	Disable 💿 Server	C Relay		
		Back	Cancel	Reset	Next

<u>Step 3.</u>

Assign the IP pool for your DHCP server. Click Next.

<u>Step 4.</u>

Enter Parameters in BASIC - STEP4

Wan Parameters;

VPI: 0

VCI: 32

AAL5 Encapsulation: LLC

Protocol: IPoA , EoA , IPoA + NAT or EoA + NAT

Click **Next** to setup the IP parameters.



<u>Step 5.</u>

Enter Parameters in **WAN** setting.

- 1. IP Address: 10.1.2.1
- 2. Subnet mask: 255.255.255.0

3. Gateway: 10.1.2.2

Your ISP will provide above information to you.

4. DNS Server 1: 168.95.1.1

Your ISP will provide at least one DNS Server IP address.

5. Click Next.

Home	Basic	Advanced	Status	Admin	Utility
			BASIC -	STEP5	
WANI:					
IP Add	ess: 10 . 1	. 2 . 1			
Subnet M	ask: 255 . 2	55 . 255 . 0			
Gates	vay: 10 . 1	. 2 . 2			
DNS Serv	er 1: 168.95.1.1				
DNS Serv	er 2:				
DNS Serv	er 3:				
		Back	Cancel	Reset	Next

<u>Step 6.</u>

The screen will prompt the new configured parameters. Check the parameters and click **Restart**. The router will reboot with the new setting or Continue to configure another parameters.

3.4 LAN-to-LAN Connection with Bridge Mode



Web UI Configuration **CO side**

<u>Step 1.</u>

Click **Bridge and CO** Side to setup Bridge mode of the Router and then click **Next**.



<u>Step 2.</u>

Enter LAN Parameters

- 1. IP: 192.168.0.1
- 2. Subnet Mask: 255.255.255.0

3. Gateway: 192.168.0.2

Host Name: SOHO

Enter WAN Parameters

- 1. VPI: 0
- 2. VCI: 32
- 3. Encapsulation: LLC
- 4. Click Next

Home	Basic	Advanced	Status	Admin	Utility				
	BASIC - STEP2								
LAN:									
IP Addre	ess: 192 . 16	8.0.1							
Subnet Ma	ask: 255 . 25	5 . 255 . 0							
Gatew	'ay: 192 . 16	8.0.2							
Host Na	me: SOHO								
WAN1:									
UPI-	1	-							
VCI: E	, 12								
Encap.:	OVC-mux © LL	с							
		_							
		Back	Cancel	Reset	Next				

The screen will prompt the new configured parameters. Check the parameters and Click Restart The router will reboot with the new setting.

CPE side

<u>Step 1.</u>

Click **Bridge and CPE** Side to setup Bridge mode of the Router and then click **Next**.



<u>Step 2.</u>

Enter LAN Parameters

- 1. IP: 192.168.0.2
- 2. Subnet Mask: 255.255.255.0

3. Gateway: 192.168.0.1

Host Name: SOHO

Enter WAN Parameters

- 1. VPI: 0
- 2. VCI: 32
- 3. Encapsulation: LLC
- 4. Click Next

Home	Basic	Advanced	Status	Admin	Utility			
BASIC - STEP2								
LAN:								
IP Addre Subnet Ma	ss: 192 . 16 sk: 255 . 25	8 . 0 . 2 5 . 255 . 0						
Gatew: Host Nar	ay: 192 . 16 ne: SOHO	8 . 0 . 1						
WAN1:								
VPI: 0 VCI: 3 Encap.: 0	2 DVC-mux © LL	с						
		Back	Cancel	Reset	Next			

The screen will prompt the new configured parameters. Check the parameters and Click Restart The router will reboot with the new setting.

After rebooting, the GRT-501 or GRT-504 will establish a connection and the PC1 and PC2 can access to each other.

4. Further configuration

The above steps introduce simple configurations for GRT-501 or GRT-504. For further configurations such as DMZ, Virtual Server, or VLAN functions, please refer to the user's manual in the CD. If you have other questions, please contact the local **dealer** or **distributor** where you purchased this product.

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