Quick Installation Guide

For MS41p1



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Chapter I Introduction

1.1 Overview

The MS41p1 supports ADSL, ADSL2 and ADSL2+ over the existing copper lines, with downstream transmission rate up to 24Mbps (ADSL2+) and upstream transmission rate up to 1.024 Mbps. They can support PPPoA (RFC 2364 - PPP over AAL5), PPPoE (RFC 2516 – PPP over Ethernet) and RFC 1483 encapsulation over ATM (bridged or routed).

1.2 Features

Standards Compliance

- ANSI T1.413 Issue 2 compliant
- ITU-T G.992.1 (G.DMT) compliant: Up to 8Mbps downstream and 896Kbps upstream data rate
- ITU-T G.992.2 (G.lite) compliant: Supports splitter-less implementation and up to 1.5M downstream and 512Kbps upstream data rate
- ◆ ITU-T G.992.3 compliant: Better performance on long lines, and improve interoperability between chipset suppliers
- ITU-T G.992.5 Annex A compliant: Up to 24Mbps downstream and 1Mbps up stream data rate
- ITU-T G.992.5 Annex M compliant: Up to 24Mbps downstream and 3Mbps up stream data rate.

Hardware Features

• Compatible with various local telecom equipments: Huawei, ZTE, DTT, Alcatel,

Lucent, Ericsson and so on.

- Stable transmission speed even at a transmission distance of 5KM
- Supports 8 PVCs

Software Features

- Supports RFC 1483 protocol (MPOA), RFC 1577 protocol (IPOA), RFC 2364 protocol (PPP over ATM) ,and RFC 2516 protocol
- Firmware upgrade and configuration over WEB

Operating Environment

- ♦ Operating: + 0 ~ + 50
- ♦ Non-operating: 40 ~ + 85

Humidity

- ◆ Operating: 10%~95% RH
- ◆ Non-operating: 10%~95% RH
- Standard Approval
- CE CLASS B.
- ♦ FCC PART 15 CLASS B
- FCC PART 68
- ◆ UL 1950

Chapter II Hardware setup

2.1 Interface & Indicator Light Introduction

2.1.1 MODEM Indicator Light & Interface Introduction

ltem	Label	State Introduction
	DSL	ON : MODEM synchronized to the DSLAM
		Flash: MODEM not synchronized
		OFF: in Bridge mode or ADSL disconnected
Indicator	Internet	ON: in Router mode and ADSL connected,
Light		can transmit IP packets
	Ethernet	ON : linked to network card of PC
	Power	ON : MODEM power on
	חפו	Connect to the ADSL line or the 'MODEM'
Interface	DSL	port of Splitter
Introduction	Ethernet	Connect to the NIC with a crossed network
	Luiemet	line

	Connect to power adapter enclosed in the
FVIN	package
Reset	Restore default settings
Ċ	Power switch

2.1.2 Interface of splitter

Label	Introduction
LINE	Connect to the ADSL line
MODEM	Connect to 'ADSL' port of the MODEM
PHONE	Connect to the phone

2.2 Package checking

ltem	Quantity	Remark
Power Adapter	1	
Phone line	2	
RJ45 Network Line	1	
MODEM	1	
Splitter	1	

2.3 Layout



Note: Splitter is needed to: -Filter out line noise, i.e.

- Prevent line noise when there is incoming / outgoing call;
- Prevent connection speed drop when using modem.

Chapter III Configuration Instructions

This chapter introduces instructions on how to configure MS41p1 Router. All the following instructions are aimed at Router version, please skip this chapter if the product you purchased is Modem version in that Modem can be used directly without further configuration.

3.1 Before Configuration:

Before installation of ADSL, please check the following facts with your brand-band service provider:

(1) Internet Connection Mode

A. Static IP; B. PPPOE; C. PPPOA;

- (2) If Static IP connection is adopted, the service provider needs to submit public IP____, subnet mask_____, gateway____, and DNS____.
- (3) If PPPOE or PPPOA is adopted for connection, the service provider needs to provide the info: username_____, password_____.
- (4) Data encapsulation method:
 - A. LLC/SNAP B. VCMUX
- (5) VPI= _____ VCI= ____
- (6) Debugging Code_____
 - A. T1.413 B. G.dmt C. G.lite
- Note: The default is adaptation, which can negotiate and match the debug code of the center automatically; thus no modification of setting is needed.

3.2 Instructions to Configure Router Through Web

Interface

Note: If the product you purchased is of Modem version, please use the device directly without further configuration on ADSL.

3.2.1 Web Log-In

After the hardware installation, turn on the power to start. Please be sure your computer can ping through the LAN port of ADSL(Default IP: 192.168.1.1), then start IE software and type in <u>http://192.168.1.1</u> on the address bar. Please enter username and password after confirmation.

Vindows Security	X
The server 192. Warning: This s	L68.1.1 at DSL Router requires a username and password.
connection).	
	admin ••••• Image: Constraint of the second seco
	OK Cancel

Please enter the correct username and password (the default username and password are both **admin**.) to open the WEB management interface. The main page will be displayed as follows after successful log-on (the actual display might differ with software versions):

Device Info Management Device Info Board ID: 06330,2464 Software Version: 112.01_530m_JSS.A2p0021g6.20b Boardsofe (GT Version: (lefter 1.0.75.512) The information reflects the current status of your DS. connection. Line Rate - Downstream (Mops): UNIX Rate - Downstream (Mops): Default Gateway:	6 MS41p1			6	} • ⊕ • ⊵• Ø• ⊙• Ø•
Device Info Arvanced Setup Oggiorotic Dangement Device Info Device Info Arvanced Setup Oggiorotic Doticader (TE) Version: 0:12.0.0.804//.955.02.000.0000 Doticader (TE) Version: 0:12.0.0.804//.0000 Device Info Distribution (Distribution) Distribution (Distribution) Distribution (Distribution) Distribution) Distribution (Distribution) Distribution (Distribution) Distribution) Distribution Distribution (Distribution) Distribution Distribution Distribution (Distribution) <th></th> <th></th> <th></th> <th></th> <th></th>					
Device Info Subjective Version:					
Device Info Markened Setup Dansgement Device Info Markened Setup Dansgement Device Info Markened Setup Dansgement Device Info Markened Setup Dansgement Device Info Markened Setup Dansgement The france Information reflects the current status of your DBL connection. Markened Setup Markened Setup Device Info The france Information reflects the current status of your DBL connection. Markened Setup Markened Setup Device Information Reflects the current status of your DBL connection. The facto- Downstream (Kbps): The facto- Downstream (Kbps): The facto- Downstream (Kbps): The facto- Downstream (Kbps): Device Information Police Device Markenee: Device Informareflet: Device Information Police Device Device					
Device Info Mariand D: Mariand D: Mariand D: Device Info Mariand D: Device Info Mariand D: Device Info Device Info Mariand D: Device Info <					
Percent Info Order 10::::::::::::::::::::::::::::::::::::		Device Info			
Device Info Advanced Setup Bootboader (CFE) Version: (biofive 1.0.37-S.12) Data Management The information reflects the current status of your DSL connection. Line Rate - Upstream (Kbps): LAN TDv4 Address: 00:1:as9-7:3:6:40 Default Gateway: 192:168.1.1 Secondary DHS Server: 192:168.1.1 Secondary DHS Server: 192:108.1.1 Secondary DHS Server:		Board ID:	96338L-2M-8M		
Movinto Secup Diagnostics Bootboader (CFE) Version: (before 1.0.37.5.12) The information reflects the current status of your DSL connection. Line Rate - Dipstream (Kbps): LAN IPv4 Address: 192.168.1.1 MAC Address: 192.168.1.1 Secondary DHS Server: 192.168.1.1 Secondary DHS Server: 192.168.1.1	Device Info	Software Version:	3.12L.01_830en_MS5.A2pB021g9.d20h		
Yanagement The information reflects the current status of your DS, connection. Line Rate - Upstream (Klops): Line Rate - Downstream (Klops): Line Rate - Sownstream (Klops): Diale Rate - Sownstream (Klops): MAC Address: 00:1x:38:73:46:40 Default Gateway: Diale Rate - Sownstream (Klops): Secondary DHS Server: 192:168.1.1	Diagnostics	Bootloader (CFE) Version:	(before 1.0.37-5.12)		
Line Rate - Dystream (Kbps): Line Rate - Dystream (Kbps): HAR Dyd Address: 192.106.1.1 MAC Address: 192.106.1.1 Secondary DHS Server: 192.106.1.1 Secondary DHS Server: 192.106.1.1	Management	This information reflects the co	rrent status of your DSL connection.		
Line Rate - Downstream (Kops): LNI Pv4 Address: 00:1x:39:73:664 Default Gateway: Default Gateway: Default Office - Default Gateway: Default Gateway: D		Line Rate - Upstream (Kbp	;):		
LAN IPv4 Address: 192.168.1.1 Mc Address: 00:1a:39:73:3640 Primary DIS Server: 192.168.1.1 Secondary DIS Server: 192.168.1.1		Line Rate - Downstream (I	bps):		
MAC Address: 00:13:09/73:06:40 Primary DNS Server: 192.108.1.1 Secondary DNS Server: 192.108.1.1		LAN IPv4 Address:	192.168.1.1		
Default Gateway: Default Gateway: Default Gateway: Secondary DHS Server: 192.168.1.1 Secondary DHS Secondary DHS Seco		MAC Address:	00:1a:a9:73:a6:40		
Primary DNS Server: 192.168.1.1 Secondary DNS Server: 192.168.1.1		Default Gateway:			
		Primary DNS Server:	192.168.1.1		
na Rođeni i Drotovsta Mode Diff 🖉 🕸 V 🕸 95% 🔪					
ne 👘 🖓 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘			United		
	Dono			a Internet Brotected Mader Off	

3.2.2 WEB Interface Descriptions

There are seven options on the main menu on the left side of the main page. Every option can be processed to setup the systematic features, and user can configure each function respectively in accordance with specific needs. The detailed descriptions are as

follows:

1) Device Info

Including "Summary", "WAN" info, "Statistics", "Router" info, "ARP" info and other submenu items.

2) Advanced Setting

Including "WAN" setting, "LAN" setting, "Security", "Routing", "DSL" and other items.

3) Diagnostics

To display the testing result of the status of each connection.

4) Management

Including "Setting", "System Log", "Access Control", "Update Software", "Save/Reboot" and other items.

Please refer to the following instructions on the application of relevant configurations.

3.3 Instructions on the Application of Common-use

Function Modules

3.3.1 Save & Reboot

As usual, after some modifications on the settings, in order to validate these modifications, we should save the changes and reboot the system to make them effective.

On some setting pages, you can click on "Save/Reboot" button on the bottom of the page to save the setting modifications and restart the system; or else, you can enter "Management" -> "Save/Reboot" page after modifications to save all the setting changes and restart the system, the interface is displayed as below:

	Click the button below to save and reboot the router.
Device Info Advanced Setup Diagnostics Management Settings System Log SNNP Agent Internet Time Access Control Update Software Save/Reboot	Save/Reboot

3.3.2 LAN Setting

 Please select "Advanced Setting"—> "LAN" on the main page to enter the LAN setting interface. On this page, you can setup the IP address and subnet mask for the LAN port. Please press "Save" button to validate the modifications. The setting interface is shown as below:

Device Info Advanced Setup WAN LAN NAT Security Routing DNS DSL Diagnostics Management	Local Area Network (LAN) Setup Configure the DSL Router IP Address and Subnet Mask for LAN interface. Save button only saves the LAN configuration data. Save/Reboot button saves the LAN configuration data and reboots the router to make the new configuration effective. IP Address: IP 1.06.1.1 Subnet Mask: IP 55.255.255.0 Im Enable UPNP Imable DAP Server Onable DHCP Server Imable DAP Server Server IP Address: IP 1.06.1.2 Imable DAP datess: IP 1.06.1.2 Imable DT P Address: IP 1.06.1.2 Imable DT P address: IP 1.06.1.2 Imable DT P address: IP 1.06.1.2 Image Time (hour): Image Time (hour):
--	--

- Save Save/Reboot
- After the modification of IP address for LAN port, you should re-log on WEB management interface via the new IP address.
- 3) If the new IP address does NOT belong to the same IP section as the original IP address, you need to change the IP of PC web card to conform to the new IP section in order to perform further WEB managing operations on ADSL device.
- 4) Please be sure to save the modification after resetting IP of ADSL port.

3.3.3 DHCP Setting

Please select "Advanced Setting" —> "LAN" on the main page to enter the LAN setting page as shown as above:

- 1) DHCP modes: disable DHCP service, or enable DHCP service. Please refer to the following setting if DHCP service is enabled.
- 2) DHCP Server Setting

Please select to enable DHCP service. Setup the address pool of the range of starting IP and ending IP and expiration time.

Please be sure to save all the modifications after the setup.

3.3.4 User Management Setting

Please select "Management" > "Access Control" ---> "Passwords" on the main page as shown below to manage users with different priority. Also you can change password on this page.

	Access Control Passwords
	Access to your DSL router is controlled through three user accounts: admin, support, and user.
Device Info	
Advanced Setup	The user name "admin" has unrestricted access to change and view configuration of your DSL Router
Diagnostics	
Management	The user name "support" is used to allow an ISP technician to access your DSL Router for
Settings	maintenance and to run diagnostics.
System Log	The user name "user" can access the DSL Router, view configuration settings and statistics, as
Internet Time	well as, update the router's software.
Access Control	Lice the fields below to enter up to 16 characters and click "Applu" to change or create
Services	passwords. Note: Password cannot contain a space.
IP Addresses	
Passwords	Username:
Update Software	Old Password:
Save/Reboot	New Password:
	Confirm Password:
	Save/Apply

Draw down and select the username to be modified, then after the entry of the original and new passwords, confirm the new password and click on "Save/Apply" button to validate the new password.

Chapter IV Typical Application Cases

4.1 Single-user Log-on (supported both by Modem

version and Router version)

4.1.1 Dialing Mode (Dynamic IP)

4.1.1.1 ADSL Setting: No setting modification is required on the MS41p1, please adopt the default settings;

4.1.1.2 Computer Setting: A special dialing software needs to be installed on user PC, software such as EnterNet300, EnterNet500 or WinPoET, etc. (with exception of WinXP OS); then enter onto dialing column the username and password provided by broad-band service supplier, internet will be connected after successful dialing.

4.1.2 Special Line Mode (Static IP)

4.1.2.1 ADSL Setting: No setting modification is required on the MS41p1, please employ the default setting;

4.1.2.2 Computer Setting: Please enter TCP/IP properties of PC Web Card and type in the public IP, subnet mask, gateway and DNS provided by the broad-band service supplier.

Note: The default PVC connection parameters can meet the needs of the majority of areas, so user is not required to reset the parameters; if the modification of relevant parameters is desired, please delete the original default PVC connection and then create a new connection. (A MER protocol (1/39) is included in the default setting, which cannot be deleted or modified.)

Please refer to the following instructions to configure specific application modes.

4.2 Multi-user Log-on (supported only by Router

version via its router feature)

4.2.1 Dialing Mode (Dynamic IP)

Description: Under this application, PPPOE(RFC2516) or PPPOA (RFC2364) protocol must be supported by the center.

4.2.1.1 Parameter Configuration

Please select "Advanced Setting"——> "WAN" on the main page to enter the WAN setup page as shown below:

	Wide Area	a Netwo	rk (WAN) S	etup							
Device Info	Choose Ado Choose Sav	1, Edit, o /e/Reboo	r Remove to it to apply th	configure V e changes a	/AN interfaces ind reboot the	system.					
Advanced Setup WAN	VPI/VCI	Con. ID	Category	Service	Interface	Protocol	Igmp	QoS	State	Remove	Edit
LAN NAT	1/39	1	UBR	mer_1_39	nas_1_39	MER	Disabled	Disabled	Enabled		Edit
Security Routing	0/35	1	UBR	br_0_35	nas_0_35	Bridge	N/A	Disabled	Enabled		Edit
DNS	8/81	1	UBR	br_8_81	nas_8_81	Bridge	N/A	Disabled	Enabled		Edit
DSL Diagnostics	8/35	1	UBR	br_8_35	nas_8_35	Bridge	N/A	Disabled	Enabled		Edit
Management	0/32	1	UBR	br_0_32	nas_0_32	Bridge	N/A	Disabled	Enabled		Edit
	0/33	1	UBR	br_0_33	ppp_0_33_1	PPPoE	Disabled	Disabled	Enabled		Edit
	0/100	1	UBR	br_0_100	nas_0_100	Bridge	N/A	Disabled	Enabled		Edit
	8/88	1	UBR	br_0_200	nas_8_88	Bridge	N/A	Disabled	Enabled		Edit

1) Please select the PVC to be setup and click on "Edit" button to perform the following configurations:

Device Tarlo Advanced Setup WAN NAT Sociffy Positing DRS DRS DRS DRS DRS Planagement	ATM PPE Configuration This screep Allows plan to candigure an atms PPC shortfor (APT and VCC) and where a service category, otherwise chases an easing method by selecting the chasiks to enable it. VE: [0.425] VI: [0.4253] Service Category: [DE Victaer: PCE]] VI: [0.4253] Service Category: [DE Victaer: PCE]] Service Category: [DE Victaer: PCE]] Deadle Quality (F Service) Deadle Quality (F Service)

2) To setup VPI/VCI and service types, please refer to the requirements of network service supplier. Supposedly, VPI:0, VCI:35, then the service type is "UBR without PCR".
3) After the setup, please press "Next" to enter connection types and packaging setting page. Suppose that PPPoE protocol and LLC packaging mode are employed in this case as shown below::

Device Info Select the type of network protocol and encapsulation mode over the ATM PVC that your ISP has instructed you to use. Nate that BO2.1g VLAN tagging is only available for PPPOE, MER and Bridging Advanced Satup Image: PPP over ATM (PPPoA) LAN Image: PPP over ATM (PPPE) Sacurity Image: PPP over ATM (PPOE) Bacuting Image: PPP over ATM (PPOA) DSL Image: PPP over ATM (PPOA) DSL Image: PPP over ATM (PPOA) DSL Image: PP over ATM (PPOA) DSL Image: PP over ATM (PPOA) LLC/SRAP-BXTIGING Image: PP over ATM (POA)		
	Device Info Advanced Setup WAN LAN NAT Security Routing DNS DSL Diagnostics Management	Connection Type Select the type of network protocol and encapsulation mode over the ATM PVC that your ISP has instructed you to use Nate that 802.1g VLAN tagging is only available for PPPOE, NER and Bridging. PPP over ATM (PPOA) PPP over ATM (PPOA) MAC Encapsulation Routing (MER) PP over ATM (POA) Bridging Encapsulation Mode ILC/SRAP-BILIGIB;

4) Please press "Next" after the setup to enter the dialing username/password setting page as shown below. Supposedly, the username and password are 8163/8163.

Device India Arbumandi Settup	RRP Username and Pasawand RPP usually requires that you have a user name and password to establish your connection. In the boses below, when the user name and password that your JSP has provided to you.
MAY LAN NAT Security Routing DAS DSL Diagnostics Management	PPP Lisersane: PPP Essent PPP Essent PPP ESserve Nerre: autwarcancy reefrail: JETO Pel on demand (with idle traesut timer)
	PPP IP orderation Voe Static IP Address

5) Please press "Next" after the setup to enable IGMP and WAN services, the service name setting page is shown as below:

	Enable IGMP Multicast, and WAN Service
Device Info Advanced Setup WAN LAN NAT Security Routing DNS DSL Diagnostics Management	Enable IGMP Multicast Enable WAN Service Service Name br_0_35 Back Next

6) Please press "Next" after the setup to enter the main setting form as shown below. You can check the correctness of the former settings, please press "Back" button for modification if an error occurs. Please press "Save" button after confirmation and you will be redirected to WAN setting page as shown below after saving all the changes:

Device Info	WAN Setup - Summa Make sure that the sett	iry tings below match the se	ttings provided by your ISP.
Advanced Setup WAN LAN NAT Security Routing DNS DSL Diagnostics Management	VPI / VCI: Connection Type: Service Name: Service Category: IP Address: Service State: NAT: Firewall: IGMP Multicast: Quality Of Service: Click "Save" to save the NOTE: You need to reb services over this interf	0 / 35 PPPoE br_0_35 UBR Automatically Assigned Enabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	to make any modifications. interface and further configure

4.2.1.2 Requirements to Configure Web Card of User's PC:

LAN IP address, subnet mask and gateway (IP address of LAN port on ADSL) must be preset. Please be noted that every IP address must be at the same IP section as gateway. If DHCP server feature is enabled, then user only needs to start DHCP on PC port to seek the LAN IP address automatically.

4.2.2 Special Line Mode (Static IP)

Descriptions: Under this application, 1483Bridge protocol must be supported by the center.

4.2.2.1 Parameter Configuration:

Please select "Advanced Setting"——> "WAN" on the main page to enter the WAN setting page as shown below:

Device Info	Wide Area Choose Ado Choose Sav	i Netwo I, Edit, c re/Reboi	irk (WAN) S ir Remove to ot to apply th	Setup configure V e changes a	/AN interfaces ind reboot the	i. system.					
Advanced Setup WAN	VPI/VCI	Con. ID	Category	Service	Interface	Protocol	Igmp	QoS	State	Remove	Edit
LAN NAT	1/39	1	UBR	mer_1_39	nas_1_39	MER	Disabled	Disabled	Enabled		Edit
Security	0/35	1	UBR	br_0_35	nas_0_35	Bridge	N/A	Disabled	Enabled		Edit
DNS	8/81	1	UBR	br_8_81	nas_8_81	Bridge	N/A	Disabled	Enabled		Edit
DSL Diagnostics	8/35	1	UBR	br_8_35	nas_8_35	Bridge	N/A	Disabled	Enabled		Edit
lanagement	0/32	1	UBR	br_0_32	nas_0_32	Bridge	N/A	Disabled	Enabled		Edit
	0/33	1	UBR	br_0_33	ppp_0_33_1	PPPoE	Disabled	Disabled	Enabled		Edit
	0/100	1	UBR	br_0_100	nas_0_100	Bridge	N/A	Disabled	Enabled		Edit
	8/88	1	UBR	br_0_200	nas_8_88	Bridge	N/A	Disabled	Enabled		Edit

1) Please select the PVC to be modified, and press "Edit" button to enter the setting

page.

2) The basic setting methods and interface are identical with "4.2.1 Dialing Mode (Dynamic IP).But they differ on the third step to setup the connection modes. Please select "Bridge" mode on this and press "Next" to the server name setting as shown below:

Device Info Advanced Setup WAN LAN NAT Security Routing DNS DSL Diagnostics Management	Unselect the check box below to disable this WAN service Enable Bridge Service: ♥ Service Name: br_0_35 Back Next

Please press "Next" to enter the setting main form after the setup, and check the correctness of the settings then press "Save" button to complete Bridge Connecting Mode setting.

4.2.2.2 Requirements to Configure WEB Card of User's PC:

LAN IP address, subnet mask and gateway (IP address of LAN port on ADSL) must be preset. Please be noted that every IP address must be at the same IP section as gateway. If DHCP server feature is enabled, then user only needs to start DHCP on PC port to seek the LAN IP address automatically. Global411 Internet Services, LLC Model: MS41p1 Rating: 12VDC 500mA Complies with FCC Part 15 & 68 Rules US:HBTDL03BMS41P1 Jack Type: RJ11C REN: 03B FCC Reg NO. : 0020330262 FCC ID: YZAQA-ZBQI-WONKQQ This device complies with Class B Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation. Made in China

FCC STATEMENT

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 will not occur in a particular installation. If this equipment does cause harmful 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 or more 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.