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**VisionNet 708**

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**User's Manual**

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## ***VisionNet 708 ADSL Ethernet Modem***





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## Chapter 1. Introduction

This chapter provides the brief concept of ADSL, and the external form and specification of VisionNet 708.

This chapter covers the following topics:

What is ADSL

VisionNet 708 Layout and LED Description

VisionNet 708 Specification





## What is ADSL

ADSL (Asymmetric Digital Subscriber Line) is a technology for transmitting digital information at a high bandwidth on existing phone lines to homes and businesses. Unlike regular dialup phone service, ADSL provides continuously available, "always on" connection. ADSL is asymmetric in that it uses most of the channel to transmit downstream to the user and only a small part to receive information from the user. ADSL simultaneously accommodates analog (voice) information on the same line. ADSL is generally offered at downstream data rates from 512 Kbps to about 8 Mbps, upstream data rates up to 1Mbps.

ADSL was specifically designed to exploit the one-way nature of most multimedia communication in which large amounts of information flow toward the user and only a small amount of interactive control information is returned.



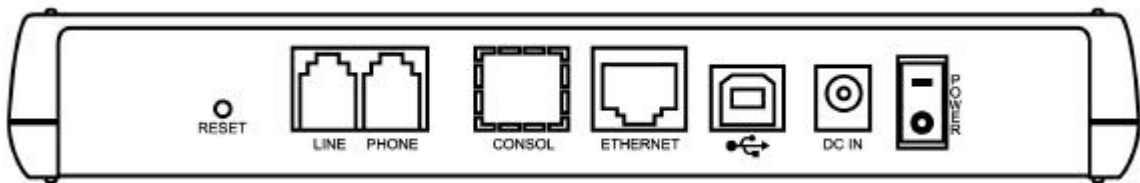
## VisionNet 708 Layout and LED Description



VisionNet 708 (Front view)



Location	Label	Status	Description
	POWER	VisionNet 708 power status	It ' s On when VisionNet 708 is connected to PC which is working.
	USB	USB is awake	USB connected PC which is working
	Tx/Rx	Data transmission	It ' s flashing whenever data is transmitted over VisionNet 708
	SYNC	ADSL Line initialization and synchronization	It ' s remain on after ADSL line synchronization achieved
	LAN	VisionNet 708 LAN status	It ' s On when VisionNet 708 is connected to PC LAN which is working.
	PPP	PPP Connected status	It ' s On when VisionNet 708 is connected to PPP which is working.



Location	Label	Port	Function
	LINE	ADSL Line Port	Connects telephone Line cable in ADSL line.
	PHONE	Telephone Connection Port	Connects the telephone cable in your telephone.
	Console	Console Port (Option)	Console Setting Port.
	Ethernet	Ethernet Port	Connects Ethernet cable from the LAN port in your PC.
	USB	USB Port	Ethernet Firmware Upgrade (Option)
	DC IN	DC IN Port	Connects Adaptor
	Power	Power Switch	VisionNet 708 Ethernet Power On/Off



## VisionNet 708 Modem Specification

	Specification
Size (outfit)	200mm X 147mm
Power (V / A)	600mA 18V
Operating Temperature	5 ~ 45
ADSL Standards compliant	ANSI T1.413 Issus 2, ITU G.DMT(G.992.1), ITU G.Lite(G.992.2)
Connection Speed	Down Stream(Rx) : 8Mbps(Max) , Up Stream(Tx) : 860Kbps (Max)
Modulation	DMT (Discrete multi -tone)
Connector	Telephone Line(RJ 11) connector 2 port , Ethernet 1 port, USB Line 1 port,
Interface	Ethernet Interface
Operating System	Windows 98/ 98SE/ME/NT 4.0/2000/XP, Macintosh, Linux, UNIX compliant
Protocol	PPP Over ATM (RFC 2364) Bridged Ethernet Over ATM (RFC 1483) Classical IP Over ATM (RFC 1577)
P V C value range	VPI: 0~255 , VCI :0~65,535

### <<Notice >>

The connection speed of VisionNet 708 may vary depending on your ADSL service, the ADSL line condition, your PC specification and the distance between ADSL modem and Central Office of your local ADSL service provider.







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## Chapter 2. Before Installation

This chapter provides basic safety information before installation. Please read this chapter very carefully before installation.

This chapter covers following topics:

Safety Check

The climate condition Check

System Requirements Check

VisionNet 708 Package Check





## Safety Check

Before installing and using VisionNet 708, please the following topics must be checked first.

Safety check related to the electricity, heat and water.

VisionNet 708 is Ethernet type ADSL modem, so you must connect VisionNet 708 to the Ethernet Port in your PC.

VisionNet 708 must be located in safe space such as near non-grounded extension cable, torn power cable and very close to the power outlet.

VisionNet 708 generates the heat when it is operating. It must not be exposed to heat trap conditions.

It must not be used near water, like a bathtub, kitchen sink or in a wet basement.

These environments could damage VisionNet 708 or effect the performance of VisionNet 708.

## The climate condition Check

For installing VisionNet 708 in safe and being used properly, please be aware of the climate Condition first.

VisionNet 708 is connected either Desktop PC or Laptop PC, so check the climate conditions of your PC and follow those instruction first.

It ' s recommendable that VisionNet 708 is being used in same temperature and humidity.

The range of operating VisionNet 708 is

Operating temperature : 5 ~ 45

relative humidity : 10 ~ 85 % (non-condensation case)





## System Requirements Check

Before installing and using VisionNet 708, please the following topics must be checked first.

### PC Operating System

Windows 95

Windows 98

Windows 98SE

Windows Millennium Edition

Windows 2000 Home Edition & Professional

Windows XP Home Edition & Professional

Macintosh, Linux, UNIX

### System Specification (Recommended).

The performance of VisionNet 708 depends on your system specification, so following specification is recommended.

OS : Windows 98/98SE

CPU :Pentium III 350MHz or higher

System Memory(RAM): 64MB or higher

LAN Card : Connect Ethernet Port



## VisionNet 708 package Check

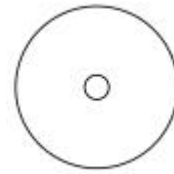
When opening VisionNet 708 Package, please check the following items in the Package.



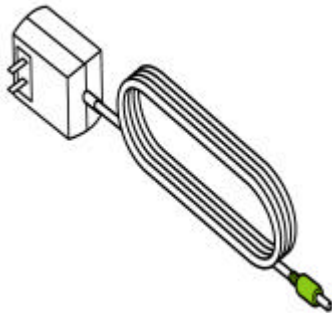
VisionNet 708 (ADSL Ethernet Modem)



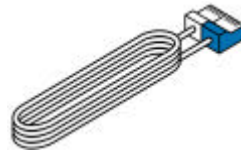
User's manual



CD



Power Adaptor



Direct UTP Cable (RJ-45)



Telephone Cable (RJ-11)



USB Cable (USB-AB)

Items : Quantity

VisionNet 708 (ADSL Ethernet Modem) : 1

Power Adaptor : 1

USB Cable (USB-AB) : 1

User's manual : 1

Direct UTP Cable (RJ-45) : 1

Telephone Line Cable (RJ-11) : 1

Manual and USB Driver CD : 1



## Chapter 3. Installation of VisionNet 708

This chapter provides the brief concept of ADSL, and the external form and specification of VisionNet 708.

This chapter covers the following topics:

Installation VisionNet 708

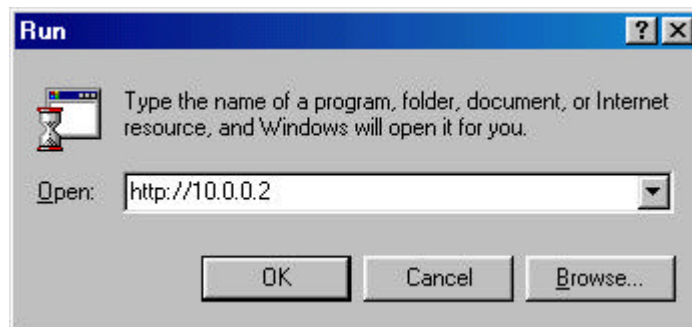
Connect and Disconnect the Internet





## Installation VisionNet 708

1. Start Internet Explorer to view or reset the configuration of the ADSL  
And type 10.0.0.2 at [Open] and click [OK] button.



2. Enter “admin ” at [User Name], “visionnet ” at [Password] as below and  
click [OK] button to proceed.





ADSL Home Page : appearing home page of VisionNet 708 ADSL and Device,  
DSL, WAN Interfaces, LAN Interfaces, Services Summary

DQ Technology Manager GUI - Microsoft Internet Explorer

Address: http://10.0.0.2/home.ssi

Home | LAN | WAN | Bridging | Routing | Services | Admin

Home | Quick Configuration

System View

Use this page to get the summary on the existing configuration of your device.

Device		DSL			
<b>Name:</b>	Titanium	<b>Operational Status:</b>	Showtime/Data		
<b>H/W Version:</b>	810012	<b>Last State:</b>	0x69		
<b>S/W Version:</b>	VIK-1.37.020524a/T93.3.8	<b>Standard:</b>	Multimode		
<b>Serial Number:</b>	123456789abcdx	<b>Up</b>		<b>Down</b>	
<b>Mode:</b>	Routing And Bridging	<b>Speed</b>	<b>Latency</b>	<b>Speed</b>	<b>Latency</b>
<b>Up Time:</b>	0:3:7	896 Kbps	Interleaved	8128 Kbps	Interleaved
<b>Time:</b>	Thu Jan 01 00:03:07 1970				
<b>Time Zone:</b>	GMT				
<b>DST:</b>	OFF				
<b>Host Name:</b>	-				
<b>Domain Name:</b>	-				

WAN Interfaces							
Interface	Encapsulation	IP Address	Mask	Gateway	Lower Interface	VPI/VCI	Status
ppp-0	PPPoE	0.0.0.0	0.0.0.0	0.0.0.0	aal5-0	0/35	

Lan Interface							
Interface	Mac Address	IP Address	Mask	Lower Interface	Speed	Duplex	Status
eth-0	00:85:A0:01:01:00	10.0.0.2	255.255.255.0	-	Auto	Auto	
usb-0	-	10.0.1.2	255.255.255.0	-	-	-	

Services Summary							
Interface	NAT	IP Filter	RIP	DHCP Relay	DHCP Client	DHCP Server	IGMP
eth-0	inside						
ppp-0	outside						
usb-0	inside						

Modify Refresh Help

Done Internet





DSL : You can find the connecting of ADSL and CRC, HEC

Home | Quick Configuration

### DSL Status

This page displays DSL Status Information

Refresh Rate: 10 Seconds

DSL Status	
Operational Status:	<input checked="" type="radio"/> Showtime/Data <input type="radio"/> Loop Stop
Last Failed Status:	0x69
Startup Progress:	0xAD

Counters	Local		Remote	
	Intrlvd	Fast	Intrlvd	Fast
FEC:	0	0	0	0
CRC:	2	0	0	0
NCD:	0	0	0	0
OCD:	0	0	-	-
HEC:	0	0	0	0
SEF:	0		0	
LOS:	0		0	

Clear DSL Param Stats Refresh Help

ATM VCC : Circumstance in ATM VCC Configuration you can set the Value of VPI VCI







Interface	Vpi	Vci	Mux Type	Max Proto per AAL5	Action(s)
aal5-0	0	35	LLC	2	

Buttons: Add, Refresh, Help

Bridging : You should use Enable when you do the EoA(Bridge Mode) in Bridge configuration.

Interface Name	Action
eth-0	
eo-a-0	
eth-0	Add

Buttons: Submit, Cancel, Refresh, Help





LAN : You can find and adjust the IP Address and Subnet Mask of LAN in LAN Configuration, the IP Address and Subnet Mask of USB in USB Configuration.

DQ Technology Manager GUI - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print

Address <http://10.0.0.2/home.ssi> Go Links >>

**dq** TECHNOLOGY

Home LAN WAN Bridging Routing Services Admin

LAN Config | DHCP Mode | DHCP Server | DHCP Relay

**LAN Configuration**

Use this page to set the LAN configuration, which determines how your device is identified on the network.

LAN Configuration	
<b>System Mode:</b>	Routing And Bridging
<b>LAN IP Address:</b>	10 0 0 2
<b>LAN Network Mask:</b>	255 255 255 0
<b>Use Dhcp:</b>	<input checked="" type="radio"/> Disabled <input type="radio"/> Remote <input type="radio"/> Local

USB Configuration	
<b>USB IP Address:</b>	10 0 1 2
<b>USB Network Mask:</b>	255 255 255 0

Submit Cancel Refresh Help

Done Internet



NAT : If you use the ADSL in Router, **[NAT]** should be in condition “Enable”

- NAT Configuration

The screenshot shows the DQ Technology Manager GUI in Microsoft Internet Explorer. The browser address bar shows `http://10.0.0.2/home.ssi`. The main navigation menu includes Home, LAN, WAN, Bridging, Routing, Services, and Admin. The current page is titled "NAT Configuration" and is part of a menu including NAT, RIP, FireWall, IP Filter, DNS, and Blocked Protocols. The page content includes a description of NAT, a "NAT Options" dropdown menu set to "NAT Global Info", and radio buttons for "Enable" (selected) and "Disable". Below this is a table for "NAT Global Information" with the following settings:

NAT Global Information	
TCP Idle Timeout(sec):	86400
TCP Close Wait(sec):	60
TCP Def Timeout(sec):	60
UDP Timeout(sec):	300
ICMP Timeout(sec):	5
GRE Timeout(sec):	300
Default Nat Age(sec):	240
NAPT Port Start:	50000
NAPT Port End:	51023

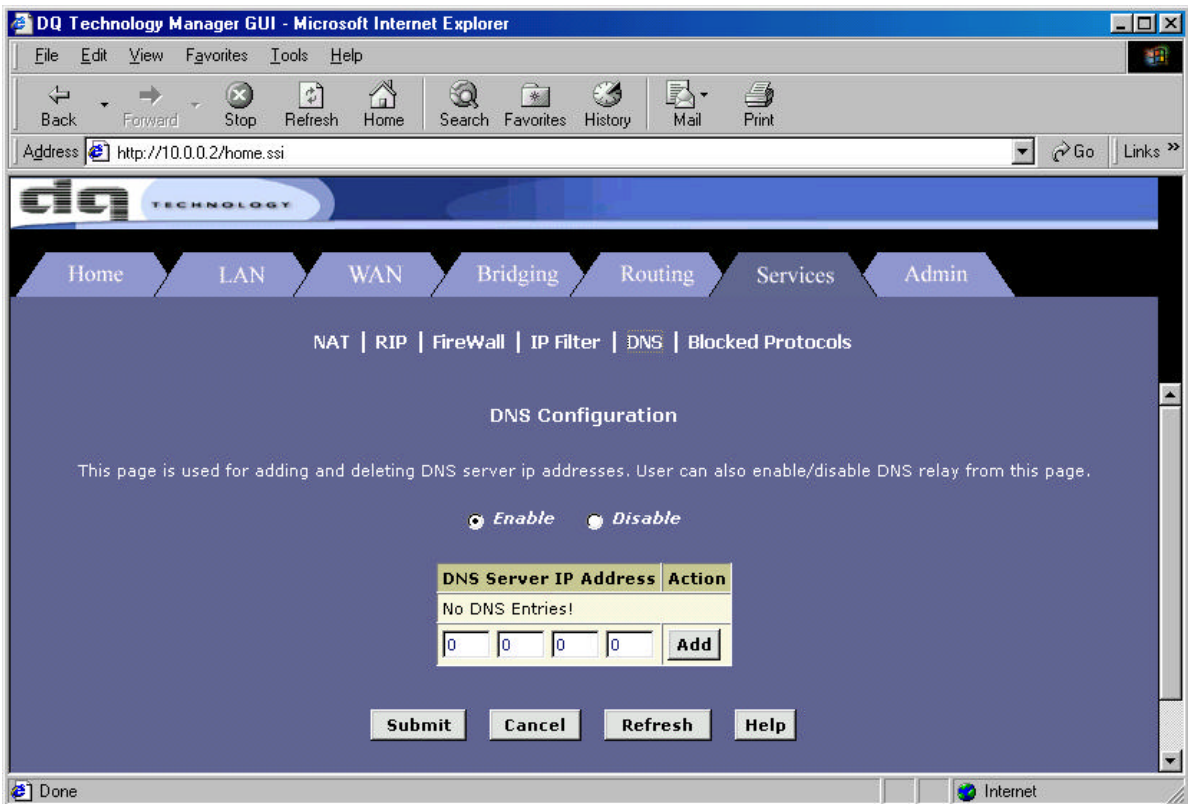
At the bottom of the configuration area are buttons for "Submit", "Global Stats", "Cancel", "Refresh", and "Help". The status bar at the bottom right shows "Internet".

DNS : In DNS Configuration. You should set the **[DNS Sever]** when using static

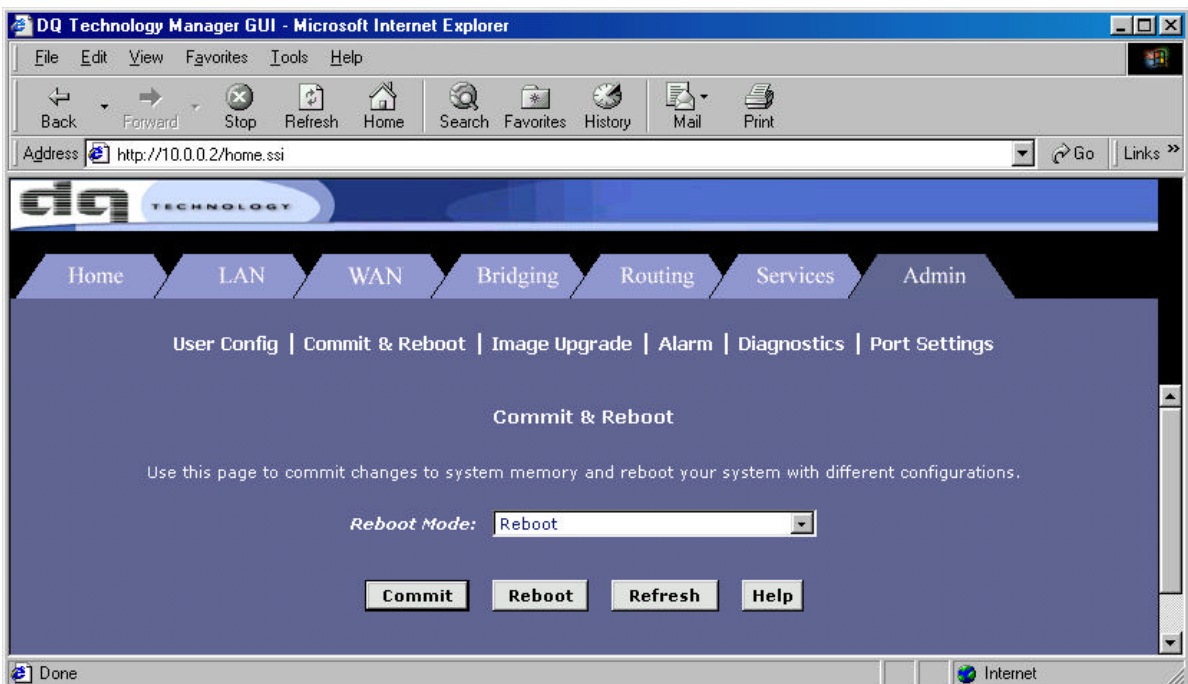




## IP(IPoA) (Provided by ISP)



Commit & Reboot : It is Saving the adjust of ADSL click the **[commit]** button.







PPP : PPP Configuration set the PPPoA & PPPoE of ADSL.

After adjusting you should click the **[Submit]** button, and change the **[Commit&Reboot]**, you should saving the configuration in circumstance of Commit and Reboot

DSL | ATM VC | **PPP** | EOA | IPOA

### PPP Configuration

This page is used to Configure and View PPP interfaces.

*Inactivity TimeOut(mins):*

*Ignore WAN to LAN traffic:*

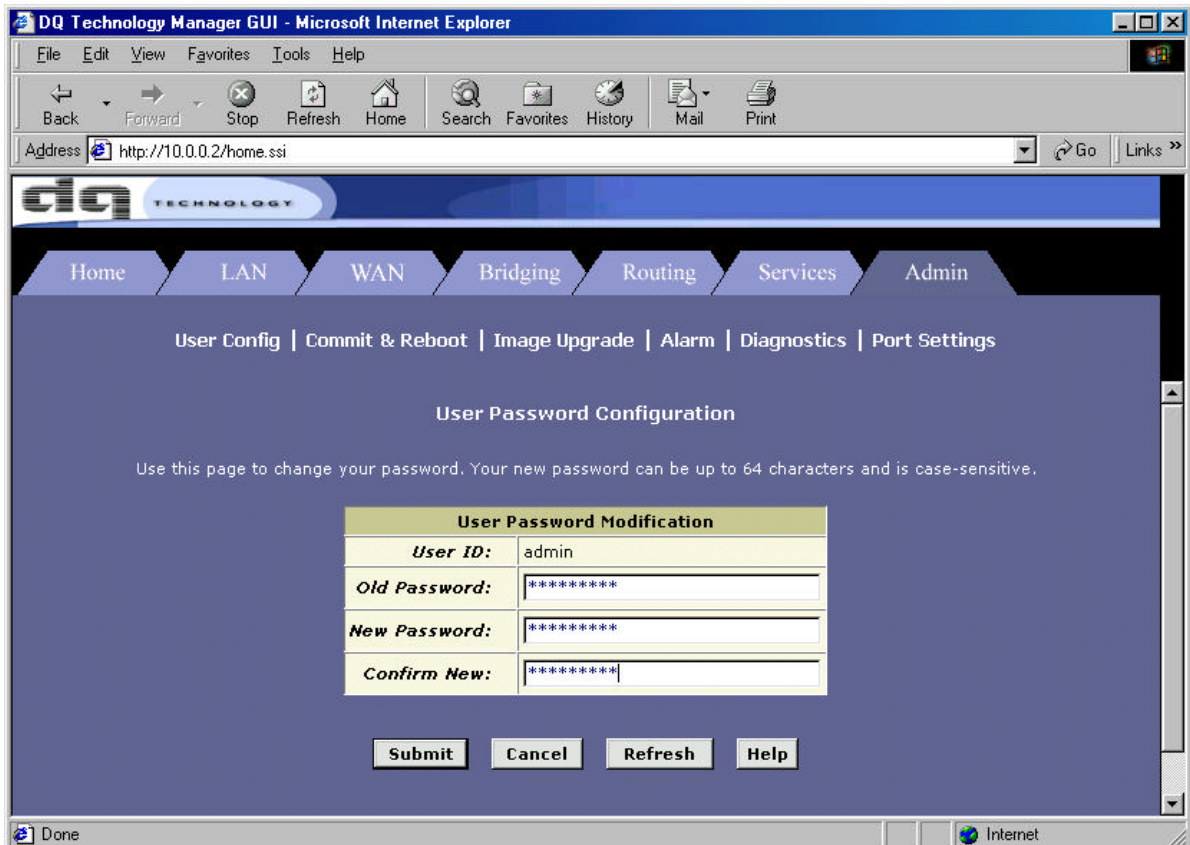
Interface	VC	IPF Type	Protocol	WAN IP	Gateway IP	Default Route	Use Dhcp	Use DNS	Oper. Status	Action
ppp-0	aal5-1	Public	PPPoE	61.78.91.91	61.78.91.1	Enable	Disable	Enable	Link Up	

**Submit** **Add** **Refresh** **Help**





User Password Configuration : This page is modify **[User Password]** of ADSL.  
You be sure that click **[Submit]** button, and save that you did in **[Commit & Reboot]**.

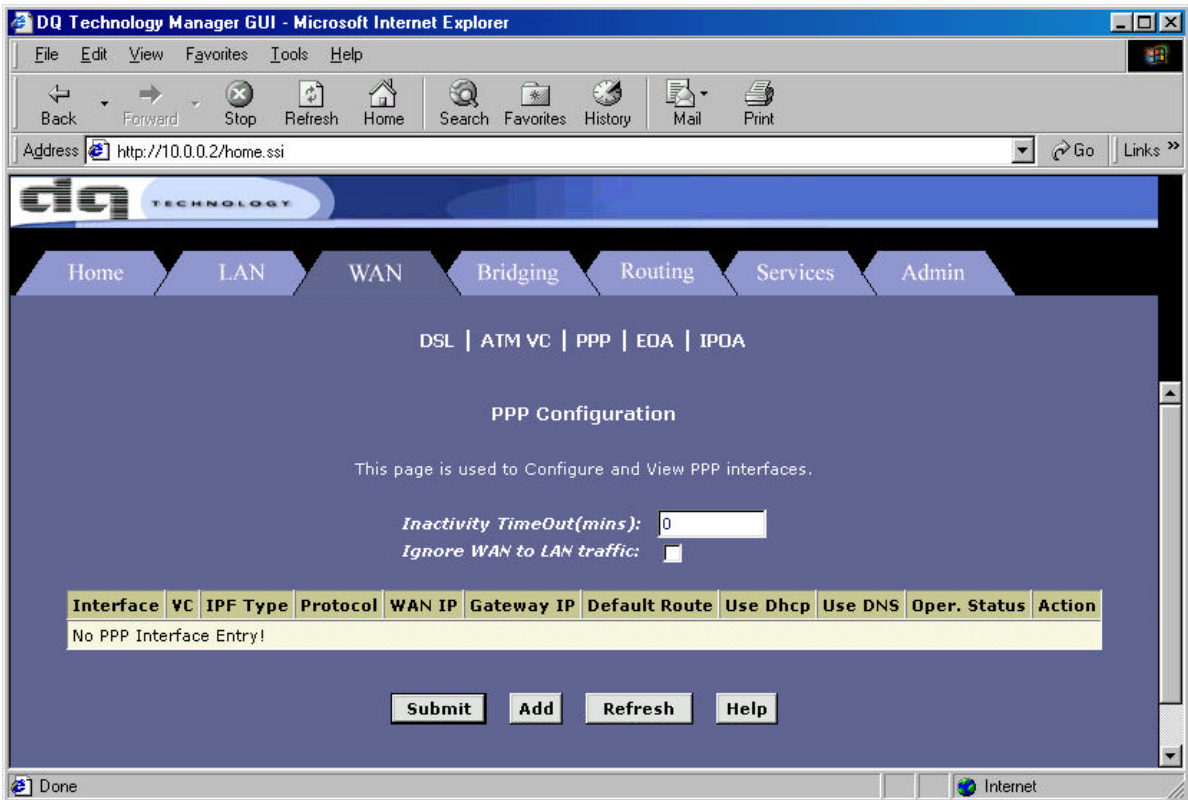


## 1. Using the PPP(PPPoE & PPPoA) Mode





1-1. Click [WAN] tap. Click “PPP” in upward row of this page, and you can find [Add] button in next page.





## 1-2. modifying in [ PPP Interface - Add ].page

- ATM VC : aal5-1(setting value in ATM VC Provided by ISP)
- Protocol : Choice PPPoA or PPPoE
- [Use Dhcp & Use DNS] setting [Enable] condition.
- Insert in the ID & Password from Provided ISP, and Click [Submit] button.
- You be sure that save you did in [Commit & Reboot].

PPP Interface - Add

Basic Information	
<i>PPP Interface:</i>	ppp-0
<i>ATM VC:</i>	aal5-1
<i>IPF Type:</i>	Public
<i>Status:</i>	Start
<i>Protocol:</i>	<input type="radio"/> PPPoA <input checked="" type="radio"/> PPPoE
<i>Service Name:</i>	ISP
<i>Use Dhcp:</i>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<i>Use DNS:</i>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<i>Default Route:</i>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Security Information	
<i>Security Protocol:</i>	<input checked="" type="radio"/> PAP <input type="radio"/> CHAP
<i>Login Name:</i>	username
<i>Password:</i>	*****

Submit Cancel Help





1-3. You do such like “ 1-2 ” , you can see fixed page such like below.

Address <http://10.0.0.2/home.ssi>

Home LAN WAN Bridging Routing Services Admin

DSL | ATM VC | PPP | EDA | IPOA

### PPP Configuration

This page is used to Configure and View PPP interfaces.

Inactivity TimeOut(mins):

Ignore WAN to LAN traffic:

Interface	VC	IPF Type	Protocol	WAN IP	Gateway IP	Default Route	Use Dhcp	Use DNS	Oper. Status	Action
ppp-0	aal5-1	Public	PPPoE	61.78.91.91	61.78.91.1	Enable	Disable	Enable	Link Up	

Submit Add Refresh Help

1-4. When Oper. Status Linked Up, you can use internet program freely.

Address <http://www.msn.com/>

MSN Home My MSN Sign In

Sunday, Dec 23

2 days 'til Christmas: holiday tunes to get you in the mood

Message Alert: Speed Up Your Internet Access

Search the Web

Today on MSN

- War-on-terror updates
- Follow NFL Sunday action
- 10 'twisted' holiday flicks
- Critic tests Segway scooter

Family Matters

- Remembering 'Charlie Brown's father'
- Best US skating rinks
- Could you have twins?
- Fun snow globe game

What your appetite

Impress your guests: 13 easy-to-make party treats

The year in pictures

Moments of heroism & humor in a stunning year

- Preview 'Gladiator' director's newest, 'Black Hawk Down'
- Melody of Christmas: Why Handel's 'Messiah' triumphs

MSNBC News

- Suspect had explosives in shoes
- New Argentine president halts debt
- Afghan prisoners cold, hungry, sick

Slate: Opinion & Commentary

- A crèche course in the constitutionality of holiday displays

ESPN Sports

- Notre Dame prepares offer to Wash. coach
- Explanation of Dennis Miller's football quips
- MJ's late shot gives Wiz 9th straight W

CNBC on MSN Money

Stock Quotes

Name	Last	Change	% Chg
Dow	10,035.34	+50.16	+0.50%
Nasdaq	1,945.83	+27.29	+1.42%
S&P	1,144.89	+4.96	+0.44%

Quotes by S&P, 20 min. delay Update

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