

DAS-3224/3248

User Manual

Version 1.0



RECYCLABLE

AMENDMENT HISTORY

Version	Date	Description
V1.0	May, 2014	New release

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WARNING INSTRUCTIONS

Before installing DAS-3224/3248, the following safety instructions must be complied.

1. All installation, repair or replacement procedures must be performed by qualified service personnel.
2. Before attempting to operate or repair this product, make sure the DAS-3224/3248 is properly grounded.
3. The maximum recommended operating temperature for the DAS-3224/3248 is 65°C.
Care must be taken to allow sufficient air circulation.
4. The connections and equipment that supply power to the DAS-3224/3248 should be capable of operating safely within the maximum power requirements of the DAS-3224/3248.
If the input DC voltage is more than 10% lower than the standard the DAS-3224/3248 may malfunction. Make sure that the power supply is stable and the voltage is correct.
5. Do not allow anything to rest on the power cord, and do not locate the product where the power cord can be stepped on. Do not touch exposed connections, components or wiring when power is present.
6. To reduce the risk of fire or any other malfunction and damages to the DAS-3224/3248, use the cables and power adapter provided in the package.
7. Following installation and the final configuration, the product must comply with the applicable safety standards and regulatory requirements of the country in which it is installed. If necessary, request technical support.
8. Do not operate this product with panels removed or with suspected failure or damage to electrical components.
9. DAS-3224/3248 is not water-proofed. Never place or install the product in a wet location unless specially designed waterproof protection is present.

We will not be responsible for any damages or injuries to the DAS-3224/3248, environment, or operating personnel if any of the safety instructions described above are violated or operating the device in the non-recommended conditions.

1 Introduction

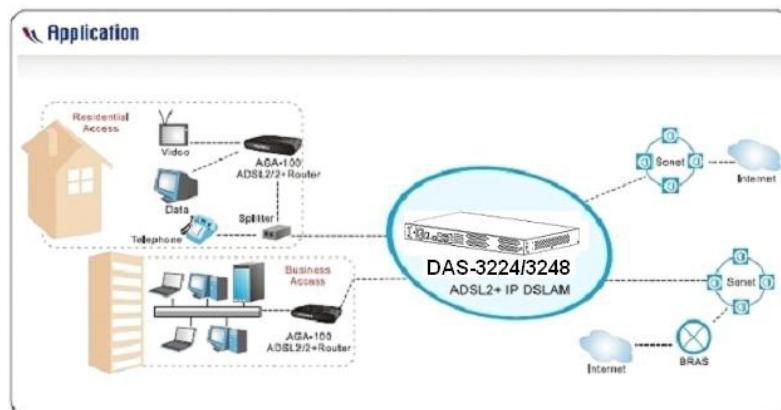
Thank you for choosing the DAS-3224/3248 as your broadband access solution. This manual will help you with the setup and configuration of your product.

1.1 DAS-3224/3248 Overview

DAS-3224/3248 ADSL2+ IP DSLAM is the up to date ADSL2/+ technology. The introduction of ADSL2+ has a major impact on how the original networks are engineered and how we access them. ADSL2+ is the latest and most advanced broadband technology for residential and business customers. DAS-3224/3248 IP DSLAM promises to deliver downstream up to 25 Mbps and upstream up to 1 Mbps traffic on short copper loops. DAS-3224/3248 is designed to support the wide deployment of triple play features and offers the user many advanced services such as voice, high speed data, and video on demand. Another benefit of DAS-3224/3248 is to enable service providers to use their existing DSL infrastructure at their own pace and within reasonable cost.

1.2 Application

Application 1: MTU Active Fiber Application



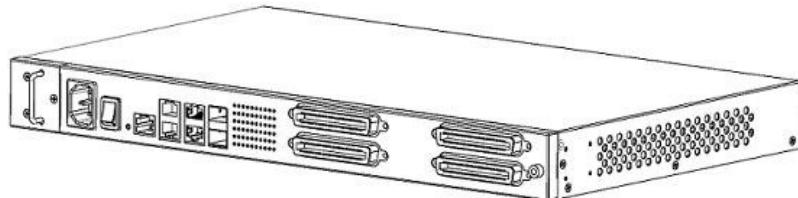
1.3 Specification

System Features		Protocol Support
λ	DSL/POTS Ports λ 24/48-port ADSL/2/2+ subscriber interface with built-in POTS Splitter λ Centronic 50-pin connector for Telco line in and out	λ IGMPv1, v2, v3 snooping and proxy λ PPPoE Intermediate Agent λ DHCP L2 Relay – TR101 Appendix B λ IEEE 802.1x λ STP (802.1D) / RSTP (802.1W) λ SNTP Client λ SysLog Client
λ	Alarm Relay for 3 inputs and 1 output	
λ	Two Uplink Port SFP/GE Combos	
λ	Pluggable FAN Module	
λ	ATM Functionality λ RFC 1483/2684 multi-protocol encapsulation over ATM AAL5 λ LLC/VCMUX auto detection λ VBR/GFR/UBR/ABR/CBR/VBR-nrt Policing λ VBR/GFR/UBR+/WFQ/UBR/GFR/VBR-nrt Shaping	ADSL/ADSL2/ADSL2+ Interface λ ADSL/ADSL2/ADSL2+: Downstream DMT data rate of 32 kbps up to 25 Mbps; Upstream DMT data rate of 32 kbps up to 1 Mbps λ Comply with the ITU G.992.1 (G.DMT), G.DMT.bis, ITU G.992.2 (G.Lite), ANSI T1.413 issue 2, ITU G.994.1 (G.handshake) for ADSL, G.992.3 for ADSL2, and G.992.5 for ADSL2+ standards λ Extended power management capabilities to optimize power consumption for each application λ Distance up to 18 kft
λ	Bridging Port λ Tagged/Untagged/All Frame Filter λ VLAN Ingress Filter λ Static and Port-based VLAN λ S-tag/C-tag Priority Mapping λ Support for Transparent LAN Service (TLS)	Management λ Local RS-232 CLI and Ethernet Web/SNMP/TELNET management λ Remote in-band Web/SNMP/TELNET management λ Firmware upgradeable via HTTP, FTP or TFTP λ Support for SNMP v1, v2, v3
λ	VLAN λ Single or Double tag support λ N:1/1:1 VLAN	
λ	Forwarding Database λ 16K MAC address entries λ Dynamic/Static FDB λ Forwarding N:1/1:1 VLAN	Operating Requirements λ Operating Temperature: -20 to 65°C λ Storage Temperature: -30 to 70°C λ Operating Humidity: 5 to 90% RH non-condensing
λ	Multicast λ Up to 256 multicast addresses λ IGMP v1, v2, v3 λ Multicast VLAN mapping ο Independent VLAN multicast (IVM). ο Shared VLAN Multicast (SVM)	Dimensions and Weight λ Dimensions: 260 mm (d) x 440 mm (w) x 44mm (h) λ Weight: 6kg
λ	Policer λ Broadcast/Unknown rate limit λ 802.1P Priority rate limit	Power λ AC power model: 90 VAC ~ 240 VAC, 50-60 Hz λ DC power model: -36 VDC ~ -72 VDC λ Power Consumption: 70 Watts
λ	Access Control List λ Filter on MAC, IP, Ether Type and port	Certifications λ EMC λ FCC Part 15 Class A λ CE-EMC Class A
λ	Packet size 64 bytes to 1522 bytes	λ Safety λ EN60950-1 λ ITU-T K.20

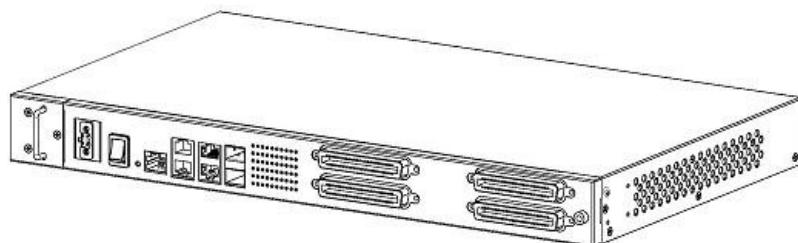
2 Hardware Setup and Startup

2.1 Description of Hardware

With AC power supply:



With DC power supply:



2.1.1 Power Outlet

AC: 90 ~ 240VAC, 50/60 Hz; 70 Watts (Max.)

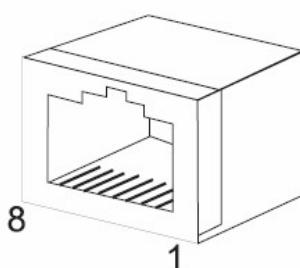
DC: -36 ~ -72 VDC; 70 Watts (Max.)

2.1.2 Optical Ethernet Port (UP1 and UP2) – SFP Cage

- Two 1000BASE-X (SX, LX, LHX, ZX) ports
- Two uplink ports or
- One port is for uplink and another one for downlink (stacking port)

2.1.3 Electrical Ethernet Port (UP1 and UP2) – RJ45

- Two automatic MDI/MDI-X 1000/100/10 BASE T Ports
- Two uplink ports or
- One port is for uplink and another one for downlink (stacking port)



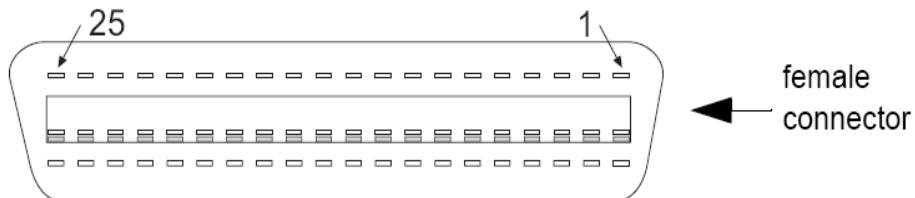
Pin	Signal Name
1	Transmit Data plus (TD1+)
2	Receive Data minus (RD1-)
3	Transmit Data plus (TD2+)
4	Transmit Data plus (TD3+)
5	Receive Data minus (RD3-)
6	Receive Data minus (RD2-)
7	Transmit Data plus (TD4+)
8	Receive Data minus (RD4-)

2.1.4 System LED

- PWR
- SYS
- ALM
- TST

System Status LEDs		
LED	Condition	Status
PWR	On Green	Power is properly supplied
SYS	On Green	System initialization is properly completed
ALM	On Red	System alarm is active
TST	On Amber	System test in progress

2.1.5 LINE ports and PSTN ports



Line Port Pin Assignment

PIN #	Usage	PIN#	Usage
1	DSL/PSTN 1-T	26	DSL/PSTN 1-R
2	DSL/PSTN 2-T	27	DSL/PSTN 2-R
3	DSL/PSTN 3-T	28	DSL/PSTN 3-R
4	DSL/PSTN 4-T	29	DSL/PSTN 4-R
5	DSL/PSTN 5-T	30	DSL/PSTN 5-R
6	DSL/PSTN 6-T	31	DSL/PSTN 6-R
7	DSL/PSTN 7-T	32	DSL/PSTN 7-R
8	DSL/PSTN 8-T	33	DSL/PSTN 8-R
9	DSL/PSTN 9-T	34	DSL/PSTN 9-R
10	DSL/PSTN 10-T	35	DSL/PSTN 10-R
11	DSL/PSTN 11-T	36	DSL/PSTN 11-R
12	DSL/PSTN 12-T	37	DSL/PSTN 12-R
13	DSL/PSTN 13-T	38	DSL/PSTN 13-R
14	DSL/PSTN 14-T	39	DSL/PSTN 14-R
15	DSL/PSTN 15-T	40	DSL/PSTN 15-R
16	DSL/PSTN 16-T	41	DSL/PSTN 16-R
17	DSL/PSTN 17-T	42	DSL/PSTN 17-R
18	DSL/PSTN 18-T	43	DSL/PSTN 18-R
19	DSL/PSTN 19-T	44	DSL/PSTN 19-R
20	DSL/PSTN 20-T	45	DSL/PSTN 20-R
21	DSL/PSTN 21-T	46	DSL/PSTN 21-R
22	DSL/PSTN 22-T	47	DSL/PSTN 22-R
23	DSL/PSTN 23-T	48	DSL/PSTN 23-R
24	DSL/PSTN 24-T	49	DSL/PSTN 24-R
25	NOT USED	50	NOT USED

2.2 Accessory Parts check

Check the following items in your package. Contact our sales representatives if any item is missing or damaged.

With AC power supply:



- **DAS-3224/3248 ADSL2+ IP DSLAM**



- **AC Power Cord**



Using a power supply with a different voltage rating will damage and void the warranty for this product.

With DC power supply:



- **DAS-3224/3248 ADSL2+ IP DSLAM**



Using a power supply with a different voltage rating will damage and void the warranty for this product.

3 Web-based Interface Setup and Startup

1. To access web-based user interface on the DAS-3224/3248, one has to connect uplink port and enter URL below at web browser.

Uplink #1 (UP1): <http://192.168.100.111>

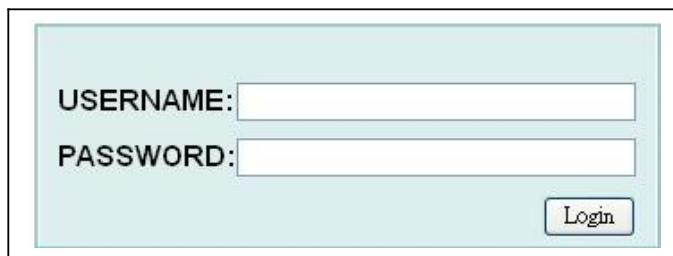
Uplink #2 (UP2): <http://192.168.1.111>

2. If you first time login the web-based user interface, the default User name/Password is:

User Name: **admin**

Password: **admin**

3. Click on  . You are now ready to configure DAS-3224/3248 IP DSLAM using web-based user interface.



The form consists of a light blue rectangular box with a thin black border. Inside, there are two rows of text labels and input fields. The first row contains the label "USERNAME:" followed by a horizontal input field. The second row contains the label "PASSWORD:" followed by another horizontal input field. At the bottom right of the box is a small rectangular "Login" button with a thin black border.

Web-based user interface provides a series of web pages that you can use to setup and configure the DAS-3224/3248 IP DSLAM. These pages are organized into four main topics. You can select each of the following topics from the menu on the left-hand side of the main window:

- System: the System section lets you carry out system commands like Firmware Update, System Reboot, Save Config, and Recall Config.
- Configuration: information about the current configuration of various system features with options to change the basic configuration.
- Advanced: information about the current configuration of various system features with options to change the advance configuration.
- Status: Information about the current setup and status of the system.
- Maintenance: show the statistics of the interface.

The changes made via web pages will immediately reflect in all elements of the network.

The exact information displayed on each web page depends on the specific configuration that you are using. The following sections give you a general overview of the setup and configuration details.

3.1 System

Click on System menu, the following options appear:



The System menu contains options including, System Information, System Reboot, Save Configuration, Backup/Restore, Firmware Update, Management Users, System Log and Image List/Selection. They will be introduced in the following sections.

3.1.1 System Information

This page simply shows the basic information of the device. User will be able to enter the desired information for the device and click on “Apply” to save the settings.

A screenshot of the 'Status/System Info' page. The page has a blue header bar with the title 'Status/System Info'. Below it is a sub-header 'System Info'. The main area contains various configuration fields:

Description:	ADSL2+ IPDSLAM
Name:	<input type="text"/>
Location:	<input type="text"/>
Contact:	<input type="text"/>
Vendor:	<input type="text"/>
Log Threshold:	<input type="text"/> 0
Object-ID:	1.3.6.1.4.1.30544
Up Time(HH:MM:SS):	0:3:25
P/N:	1.3
HwVersion:	1.2
CPLDVersion:	2.6.10_dev-wp_wds-mips2_fp_be
LinuxVersion:	D-Link_DAS-3248_D.1.1.401.60_14/5/2014 [API:GS_CMX_445 FW:3.24_138] Default Config
CPSwVersion:	14:20:03 May 14 2014
CPSwVersion(Build):	WDDI 3.4
DP Version:	<input type="text"/>
System Time: (mon dd hh:mm:ss year)	<input type="button"/> Set SNTP
Time Zone:	<input type="button"/> GMT-0000 GMT
DST:	<input type="button"/> off

At the bottom right is a large 'Apply' button.

Field	Description
Description:	Description of the device
Name:	Name of the device. User can give a name for easy management.
Location:	Location of the device
Contact:	Contact personnel or information
Vendor:	Vendor of the device. User can give a name for easy management
Log Threshold:	Number of log events
Object-ID:	ID of the object
Up Time:	Time elapses after the devices switched on.
P/N:	Product number
HwVersion:	Version of hardware (PCB board)
CPLDVersion:	Version of CPLD (Complex Programmable Logic Device)
LinuxVersion:	Version of embedded Linux
CPSwVersion:	Version of Control Plan software
CPSwVersion (build):	Time built of Control Plan software
DP Version:	Software version information
System Time:	Time of the device
Time Zone:	Setting the time to the desired time zone
DST:	Daylight Saving Time

3.1.2 System Reboot

Click System Reboot under the System Menu to display the page below. User will be able to decide which configurations to reboot from based on the dropdown list.



Upon click the “Reboot” button, a warning window will be popped up confirming the action.



When “Yes” button is pressed, it will take the system about **80** seconds to reboot.

3.1.3 Save Configuration

To store current configuration at non-volatile Flash memory:

1. From the System menu, click on *Save Configuration*. The following page is displayed:

The screenshot shows a web-based configuration interface. At the top, it says "Save Config". Below that is a blue header bar with the text "Save ConfigBackup Configuration". Underneath the bar, there is a message: "Press the button below to save the configuration." followed by a "Commit" button.

2. Click on "Commit" to save your current configuration in the device.

After a short time the configuration is saved and the following confirmation message window is displayed.



3.1.4 Backup/Restore

In the *Backup/Restore* page as shown below, user will be able to restore or backup the configuration.

The screenshot shows a web-based configuration interface with a dark blue header bar containing the text "System / Backup or Restore". Below the header is a sub-header "Backup/Restore Setting". A blue navigation bar at the top has the text "Backup/Restore" and a dropdown menu showing "Last Configuration". The main content area has two sections: one for restoring configuration from a file and another for backing up the current configuration. Both sections include "Browse..." buttons, "Restore" buttons, and "Backup" buttons.

Click on the "Browse" button to choose the configuration file desired and click "Restore" to apply the changes.

Note: You need to reboot the system to last configuration after restore the configuration file.

As for saving the current configuration settings, simply click on the "Backup" button to save the configurations.

3.1.5 Firmware Update

This option allows firmware images to be uploaded to the DAS-3224/3248 using HTTP.

- From the System menu, click *Firmware Update*. The following page will be displayed:

System/Firmware Update

From this page you may update the system software on your network device

Select a File to update (Warning: the system will close DSL and Clish for upgrading)

New Firmware Image No file selected.

- Use the button to browse and select the file. Click .

Select a File to update (Warning: the system will close DSL and Clish for upgrading)

New Firmware Image No file selected.

ipa-48-1.1.401.61.tgz

- The image file is uploaded to the RAM first and then moved to the flash non-volatile memory.

From this page you may update the system software on your network device

Select a File to update

New Firmware Image No file selected.

ipa-48-1.1.401.61.tgz

Image is uploading, please wait.....

A progress bar will show the updating progress.

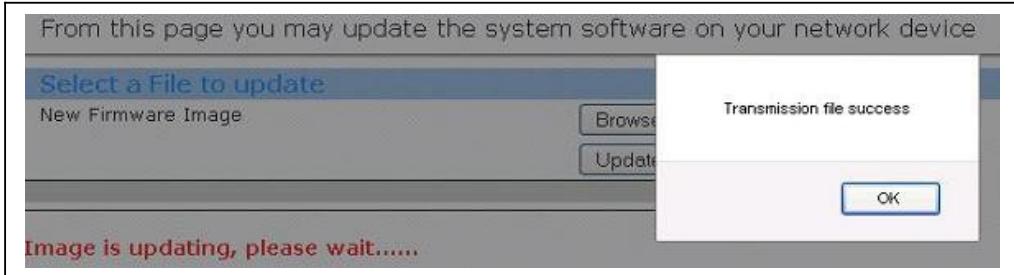
From this page you may update the system software on your network device

Select a File to update

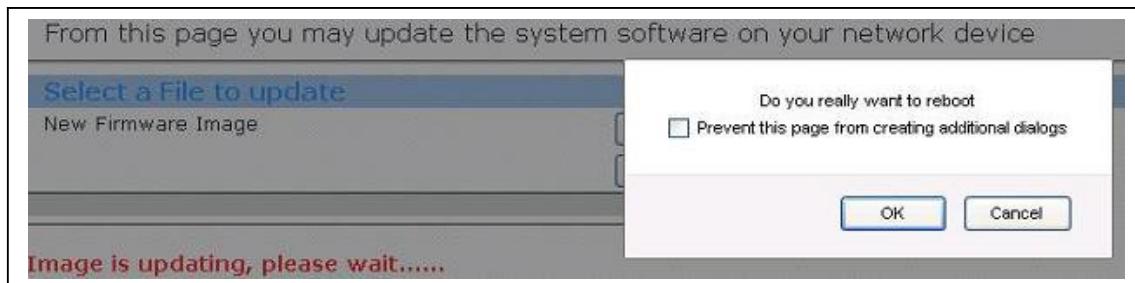
New Firmware Image No file selected.

Image is updating, please wait.....

When the progress is finished, a pop up window will be shown as below:



4. Once the file has been written to flash, the Firmware Update page shows the completion of the update and requests whether the DAS-3224/3248 is rebooted in order to run the new image file. Click OK, or user also can restarted from the System Reboot in the system menu.



Note: Please do not power-off the device while updating firmware or saving the configuration as this might cause the device to malfunction.

3.1.6 Management Users

This page allows the user to delete, modify and create user accounts for managing the DAS-3224/3248. Click “Management Users” under System menu to display the following pages.

account list		
User Name	Privilege Level	
"admin"	Root	<input type="button" value="Delete"/>
		<input type="button" value="Modify"/> <input type="button" value="Create"/>

To delete an account:

Simply select the specific account and click the “Delete” button to delete.

Note: Delete default user is not allowed.

To modify an account:

Select the specific account and click the “Modify” button to display the modification page. Edit the password field to change the password as you want and click “Apply” to save the settings.

Setting login account

User Name	"admin"
Login Password	<input type="password"/>
Privilege Level	Root

To create an account:

Click the “Create” button to display the creation page. Enter the desired data into the specified fields and click “Apply” to create the account.

Setting login account

User Name	<input type="text"/>
Login Password	<input type="password"/>
Privilege Level	<input type="button" value="Root"/>

Setting login account

User Name	<input type="text"/>
Login Password	<input type="password"/>
Privilege Level	<input type="button" value="Root"/> <input style="background-color: #00008B; color: white;" type="button" value="Root"/> <input type="button" value="Guest"/>

There are two privilege levels can be selected:

Root: is administrator, can use All of system function.

Guest: is guest, can check/read only of system function.

3.1.7 System Log

It records the messages generated from the system, stores them and analyzes them.

- System Log**
- * Syslog Sender Config
- * Syslog Log

3.1.7.1 Syslog Sender Config

This page allows the user to create or delete syslog send server. Click “Syslog Sender Config” under System Log of the System menu to display the following image.

System Log Config

Syslog Sender Enable :	<input type="button" value="False"/>
------------------------	--------------------------------------

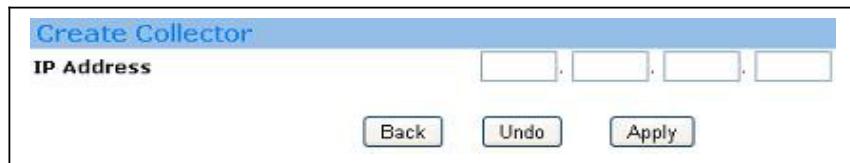
Collector List

IP Address	<input type="button" value="Delete"/>	<input type="button" value="Create"/>
------------	---------------------------------------	---------------------------------------

Use the dropdown box next to enable or disable the sender.

Note: In order to make Syslog Sender Enable to be effective, user needs to set the Log Threshold under the System Info to be a non-zero value.

User can also create or delete the Syslog sender by clicking the “Delete” or “Create” buttons. Press “Create” button to display the following image.



The screenshot shows a configuration interface titled "Create Collector". It has a field labeled "IP Address" with four input boxes. Below the input boxes are three buttons: "Back", "Undo", and "Apply".

3.1.7.2 Syslog Log

This page lists the entire system event log. User will be able to check the event history under this section. User can click “Reload” to refresh the page for updated events or click “Reset” to clear the past events. To display the following page, simply click Syslog Log of the System Log under the System menu.

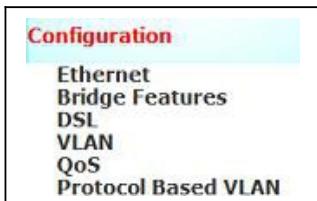
System Log		
Date	Type	Describe
Sat Jan 01 00:02:06 2000	MAJOR ALARM	XDSL XTUC Down : Interface - dsl-1
Sat Jan 01 00:02:40 2000	STATUS ALARM	XDSL XTUC Up : Interface - dsl-1
<input type="button" value="Reset"/>	<input type="button" value="Reload"/>	

3.1.8 Image List/Selection

This page allows the user to display repository image version and to change repository. User can simply to check Select option next to the desired image version and click “Apply” to change the image version. Click on the Image List under System menu to display the following page.

Dual Image Selection Repository List/Selection				
	Image Version	MD5-CheckSum	Current Repository	Select
Repository#1	ipa-48-1.1.401.60.1.tgz	2beac734d9d152d0763ece39f54486c4		<input type="radio"/>
Repository#2	ipa-48-1.1.401.61.tgz	9e3e02cabbe18c1e0e3837819148ff1	V	<input checked="" type="radio"/>
<input type="button" value="Apply"/>				

3.2 Configuration



3.2.1 Ethernet



3.2.1.1 Interface Setup

This page allows the user to modify the specific Ethernet Interfaces. Click the “Interface Setup” of the Ethernet under Configuration menu to display the page.

Interface Configuration											
Interface	MAC Address	IP Address	Subnet Mask	Gateway	Speed (Mbps)	Duplex	Management SVID	Management CVID	Management CVID	Flow Control	
<input checked="" type="radio"/> Eth1	00 11 22 33 44 01	192.168.100.111	255.255.255.0	192.168.100.254	Auto	Auto	-	-	-	Disable	
<input type="radio"/> Eth2	00 11 22 33 44 02	192.168.1.111	255.255.255.0	0.0.0.0	Auto	Auto	-	-	-	Disable	
Modify											

Simply select the desired Interface and click “Modify” to enter the modification page. Fill in the desired data for the corresponding fields and click “Apply” to save the changes.

Ethernet Interface Setup		
Parameter	Present	Modify
Interface	Eth1	
Media	Auto	<input type="button" value="Auto"/>
MAC address	00 11 22 33 44 01	
IP address	192.168.100.111	<input type="button" value="192"/> . <input type="button" value="168"/> . <input type="button" value="100"/> . <input type="button" value="111"/>
Subnet Mask	255.255.255.0	<input type="button" value="255"/> . <input type="button" value="255"/> . <input type="button" value="255"/> . <input type="button" value="0"/>
Default Gateway	192.168.100.254	<input type="button" value="192"/> . <input type="button" value="168"/> . <input type="button" value="100"/> . <input type="button" value="254"/>
Speed	Auto	<input type="button" value="Auto"/>
Duplex	Auto	<input type="button" value="Auto"/>
Management SVid	-	<input type="button" value="0"/> (0~4093)
Management CVid	-	<input type="button" value="0"/> (0~4093)
FlowControl	Disable	<input type="button" value="Disable"/>
<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Apply"/>		

3.2.1.2 Management IP

This page allows user to modify the range and interface of the management IP. Simply set the beginning and end of IP address range and assign the interface of the management IP (both, eth1, or eth2), then press “Create” button to save the settings.

Management IP Setup

Begin IP Address	End IP Address	Interface
1 . 0 . 0 . 1	0 . 0 . 0 . 0	Both
<input type="button" value="Delete"/>		
<input type="button" value="Create"/>		

3.2.2 Bridge Features

- Bridge Features**
- Bridge Configuration
 - XVID

3.2.2.1 Bridge Configuration

This page allows the user to modify the Bridge information for each DSL port. Simply select the desired DSL port and click “Modify” to enter the modification page.

Display all general port information

Ethernet Tag TPIDs: 0x8100 Port 1~24 Port 25~48

Port ID	PVC	Admin State	Type	Accept Frame	Max MACs	Used MACs	Default SVID	Default Priority	Priority Mode
DSL-1	PVC_1	up	User	All	40	0	1	0	untagged
DSL-2	PVC_1	up	User	All	40	0	1	0	untagged
DSL-3	PVC_1	up	User	All	40	0	1	0	untagged
DSL-4	PVC_1	up	User	All	40	0	1	0	untagged
DSL-5	PVC_1	up	User	All	40	0	1	0	untagged
DSL-6	PVC_1	up	User	All	40	0	1	0	untagged
DSL-7	PVC_1	up	User	All	40	0	1	0	untagged
DSL-8	PVC_1	up	User	All	40	0	1	0	untagged
DSL-9	PVC_1	up	User	All	40	0	1	0	untagged
DSL-10	PVC_1	up	User	All	40	0	1	0	untagged
DSL-11	PVC_1	up	User	All	40	0	1	0	untagged
DSL-12	PVC_1	up	User	All	40	0	1	0	untagged
DSL-13	PVC_1	up	User	All	40	0	1	0	untagged
DSL-14	PVC_1	up	User	All	40	0	1	0	untagged
DSL-15	PVC_1	up	User	All	40	0	1	0	untagged
DSL-16	PVC_1	up	User	All	40	0	1	0	untagged
DSL-17	PVC_1	up	User	All	40	0	1	0	untagged
DSL-18	PVC_1	up	User	All	40	0	1	0	untagged
DSL-19	PVC_1	up	User	All	40	0	1	0	untagged
DSL-20	PVC_1	up	User	All	40	0	1	0	untagged
DSL-21	PVC_1	up	User	All	40	0	1	0	untagged
DSL-22	PVC_1	up	User	All	40	0	1	0	untagged
DSL-23	PVC_1	up	User	All	40	0	1	0	untagged
DSL-24	PVC_1	up	User	All	4000	2	1	0	Untagged
ETH-01		up	Uplink	All	4000	0	1	0	Untagged
ETH-02		up	Uplink	All	4000	0	1	0	Untagged

Once the modification page displayed, enter the desired information to the corresponding fields and click “Modify” to save the settings.

Modify Bridge Setup

Port ID: DSL-1

PVC:	PVC_1
Admin Status:	<input type="radio"/> Down <input checked="" type="radio"/> Up
Accept Frame Type:	<input checked="" type="radio"/> All <input type="radio"/> Tagged <input type="radio"/> Untagged
Default SVID:	1
Default Priority:	0
Default Priority Mode:	<input checked="" type="radio"/> Untagged <input type="radio"/> All
Learning Mode:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Modify

Port Type:	User
Note:	The Accept Frame Type must be All for TLS port type !

Modify

Here need to add more information for above figure.

Field	Description
Port ID	The bridge port ID. Valid values: 1...26 (1...24: DSL, 25...26: eth)
PVC	Permanent Virtual Connection ID
Admin Status	Show the port disable and enable status
Accept Frame type	All: forward tagged/untagged packet by default Tagged: Forward Tagged packet Untagged: Forward Untagged packet
Default SVID	Service VLAN ID, which is used to be the default Service VLAN ID. Valid values: 1...4093
Default Priority	Set 802.1p value for the port, valid value: 0-7
Default Priority Mode	Untagged :mean no 802.1p priority tag traffic All: forward any 802.1p priority tag traffic
Learning Mode	The state of learning on this bridge port, which is used to learn VLAN ID. Valid values: disable / enable
Port Type	Type of the port: User or TLS (Transparent Line Service)

3.2.2.2 XVID

This page displays the list of all CVIDs for any specific ports. You can transfer the CVID to predefined SVID/CVID. Click CVID under the Configuration menu and display the page below.

Get a list of all XVID rules of the port

Port ID	DSL-1	Ingress CVID	Egress SVID	Egress CVID
		1	1	N/A

Click on “Modify” button to display the modification page as below, where user will be able to modify CVID member list translation rule of any specific ports. Simply use the dropdown list to choose the desired option and click “Apply” to save the settings.

Modify CVID

Port ID	1
Ingress CVID	1
Egress SVID	<input type="dropdown" value="1"/>
Egress CVID	<input type="dropdown" value="N/A"/>

3.2.3 DSL Profile Configuration

DSL
Profile
• Line Profile
• Channel Profile
Port Setup
PVC Management

3.2.3.1 Profile

3.2.3.1.1 Line Profile

This page displays the Line profiles and allows the user to manage the DSL line profiles.

Each DSL port has a unique profile assigned to it at any given time. User can configure multiple profiles, including profiles for troubleshooting. User can configure many DSL ports with the same profile; instead of configure the settings of each DSL port one-by-one.

Click “Line Profile” under DSL Profile of the Configuration menu to display the following page.

Line Profile List							
Profile Name	DS Max SNR Margin(dB)	DS Min SNR Margin(dB)	US Max SNR Margin(dB)	US Min SNR Margin(dB)	DS Target SNR Margin(dB)	US Target SNR Margin(dB)	
default	31.0	3.0	31.0	3.0	6.0	6.0	

For the creation or modification, simply enter the desired values to the corresponding fields and click “Apply” to save the changes.

Note: Default profile cannot be modified.

Create xDSL Line Profile

Profile Name	<input type="text"/>
Transmission Modulation Mode	<input checked="" type="checkbox"/> ANSI T.1413 <input checked="" type="checkbox"/> G.DMT <input checked="" type="checkbox"/> ADSL2 <input type="checkbox"/> ADSL2 AnnexM <input checked="" type="checkbox"/> ADSL2+ <input type="checkbox"/> ADSL2+ AnnexM
Force Impulse Noise Protection	<input type="button" value="Enable"/>
Downstream PM L2 Exit Threshold Data Rate	64000000 (128000..64000000 seconds)
Power Management Mode(ADSL)	<input checked="" type="radio"/> Forbid_To_L2_and_L3 <input type="radio"/> Allow_To_L3_only <input type="radio"/> Allow_To_L2_only <input type="radio"/> Allow_L2_and_L3
L0 Time(ADSL)	255 (0..1800 seconds)
L2 Time(ADSL)	255 (0..1800 seconds)
Max Aggregate Tx Power Reduction(ADSL)	10 (0..31 seconds)
Downstream PM L2 Min Rate(ADSL)	1500000 (1000000..4300000 bps)
PM L2 Entry Threshold Data Rate(ADSL)	0 (0..3000000000 bps)
PM L2 Entry Rate Min Time(ADSL)	10 (10..1114 seconds)
Downstream	
Rate Mode	Dynamic
Min SNR Margin	30 (0..310 dB/10)
Max SNR Margin	310 (0..310 dB/10)
Target SNR Margin	60 (0..310 dB/10)
Up-Shift Noise Margin	90 (0..310 dB/10)
Down-Shift Noise Margin	30 (0..310 dB/10)
Up-Shift Time Interval	30 (0..16383 seconds)
Down-Shift Time Interval	30 (0..16383 seconds)
Bit-Swap	Enable
Upstream	
Rate Mode	Dynamic
Min SNR Margin	30 (0..310 dB/10)
Max SNR Margin	310 (0..310 dB/10)
Target SNR Margin	60 (0..310 dB/10)
Up-Shift Noise Margin	10 (0..310 dB/10)
Down-Shift Noise Margin	10 (0..310 dB/10)
Up-Shift Time Interval	3600 (0..16383 seconds)
Down-Shift Time Interval	30 (0..16383 seconds)
Bit-Swap	Enable

3.2.3.1.2 Channel Profile

Click “Channel Profile” under DSL of the Configuration menu to display the following page and allow user to manage them.

Channel Profile List									
Profile Name	Downstream Min Data Rate(bps)	Upstream Min Data Rate(bps)	Downstream Max Data Rate(bps)	Upstream Max Data Rate(bps)	Downstream Max Interleave Delay(ns)	Upstream Max Interleave Delay(ns)	Downstream Min INP	Upstream Min INP	
default	32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
<input type="button" value="Delete"/> <input type="button" value="Modify"/> <input type="button" value="Create"/>									

For the creation or modification, simply enter the desired values to the corresponding fields and click “Apply” to save the changes.

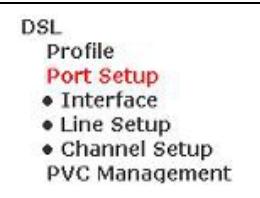
Note: Default profile cannot be modified.

Create xDSL Channel Profile

Profile Name	<input type="text"/>
Downstream Min Net Data Rate	32000 (0..24000000 bps)
Upstream Min Net Data Rate	32000 (0..2000000 bps)
Downstream Max Net Data Rate	24576000 (0..24000000 bps)
Upstream Max Net Data Rate	1024000 (0..2000000 bps)
Downstream Max Interleave Delay	16 (1..63 ms)
Upstream Max Interleave Delay	8 (1..63 ms)
Downstream Min INP	HalfSymbol <input type="button" value="▼"/>
Upstream Min INP	HalfSymbol <input type="button" value="▼"/>

Back **Undo** **Apply**

3.2.3.2 Port Setup



3.2.3.2.1 Interface

The Line interface page allows user to disable/enable each DSL port.

DSL Administration Configuration		
DSL No.	Description	Admin
1		<input checked="" type="checkbox"/>
2		<input checked="" type="checkbox"/>
3		<input checked="" type="checkbox"/>
4		<input checked="" type="checkbox"/>
5		<input checked="" type="checkbox"/>
6		<input checked="" type="checkbox"/>
7		<input checked="" type="checkbox"/>
8		<input checked="" type="checkbox"/>
9		<input checked="" type="checkbox"/>
10		<input checked="" type="checkbox"/>
11		<input checked="" type="checkbox"/>
12		<input checked="" type="checkbox"/>
13		<input checked="" type="checkbox"/>
14		<input checked="" type="checkbox"/>
15		<input checked="" type="checkbox"/>
16		<input checked="" type="checkbox"/>
17		<input checked="" type="checkbox"/>
18		<input checked="" type="checkbox"/>
19		<input checked="" type="checkbox"/>
20		<input checked="" type="checkbox"/>
21		<input checked="" type="checkbox"/>
22		<input checked="" type="checkbox"/>
23		<input checked="" type="checkbox"/>
24		<input checked="" type="checkbox"/>
25		<input checked="" type="checkbox"/>
26		<input checked="" type="checkbox"/>

27		<input checked="" type="checkbox"/>
28		<input checked="" type="checkbox"/>
29		<input checked="" type="checkbox"/>
30		<input checked="" type="checkbox"/>
31		<input checked="" type="checkbox"/>
32		<input checked="" type="checkbox"/>
33		<input checked="" type="checkbox"/>
34		<input checked="" type="checkbox"/>
35		<input checked="" type="checkbox"/>
36		<input checked="" type="checkbox"/>
37		<input checked="" type="checkbox"/>
38		<input checked="" type="checkbox"/>
39		<input checked="" type="checkbox"/>
40		<input checked="" type="checkbox"/>
41		<input checked="" type="checkbox"/>
42		<input checked="" type="checkbox"/>
43		<input checked="" type="checkbox"/>
44		<input checked="" type="checkbox"/>
45		<input checked="" type="checkbox"/>
46		<input checked="" type="checkbox"/>
47		<input checked="" type="checkbox"/>
48		<input checked="" type="checkbox"/>
<input type="checkbox"/> Select All		<input type="button" value="Apply"/>

3.2.3.2.2 Line Setup

This page allows the user to display the profile mapping information as well as let the user to apply other line profile to specified DSL port. Click “Line Profile” under DSL Port Setup of the Configuration menu to display the following page. To modify any specific Line Profile, simply select the corresponding option button and click “Apply” to change.

Line Profile Mapping Table							
DSL No.	Profile Name	Description	DS Max SNR Margin(dB)	DS Min SNR Margin(dB)	US Max SNR Margin(dB)	US Min SNR Margin(dB)	DS Target SNR Margin(dB)
DSL-1	default		31.0	3.0	31.0	3.0	6.0
DSL-2	default		31.0	3.0	31.0	3.0	6.0
DSL-3	default		31.0	3.0	31.0	3.0	6.0
DSL-4	default		31.0	3.0	31.0	3.0	6.0
DSL-5	default		31.0	3.0	31.0	3.0	6.0
DSL-6	default		31.0	3.0	31.0	3.0	6.0
DSL-7	default		31.0	3.0	31.0	3.0	6.0
DSL-8	default		31.0	3.0	31.0	3.0	6.0
DSL-9	default		31.0	3.0	31.0	3.0	6.0
DSL-10	default		31.0	3.0	31.0	3.0	6.0
DSL-11	default		31.0	3.0	31.0	3.0	6.0
DSL-12	default		31.0	3.0	31.0	3.0	6.0
DSL-13	default		31.0	3.0	31.0	3.0	6.0
DSL-14	default		31.0	3.0	31.0	3.0	6.0
DSL-15	default		31.0	3.0	31.0	3.0	6.0
DSL-16	default		31.0	3.0	31.0	3.0	6.0
DSL-17	default		31.0	3.0	31.0	3.0	6.0
DSL-18	default		31.0	3.0	31.0	3.0	6.0
DSL-19	default		31.0	3.0	31.0	3.0	6.0
DSL-20	default		31.0	3.0	31.0	3.0	6.0
DSL-21	default		31.0	3.0	31.0	3.0	6.0
DSL-22	default		31.0	3.0	31.0	3.0	6.0
DSL-23	default		31.0	3.0	31.0	3.0	6.0
DSL-24	default		31.0	3.0	31.0	3.0	6.0
DSL-25	default		31.0	3.0	31.0	3.0	6.0

Apply

3.2.3.2.3 Channel Setup

This page allows the user to display the profile mapping information as well as let the user to apply other channel profile to specified DSL port. Click “Channel Profile” under DSL of the Configuration menu to display the following page. To modify any specific Channel Profile, simply select the corresponding option button and click “Apply” to change.

Channel Profile Mapping Table											
DSL No.	Profile Name	Description	Downstream Min Data Rate(bps)	Upstream Min Data Rate(bps)	Downstream Max Data Rate(bps)	Upstream Max Data Rate(bps)	Downstream Max Interleave Delay(ms)	Upstream Max Interleave Delay(ms)	Downstream INP	Upstream Min INP	
DSL-1	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-2	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-3	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-4	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-5	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-6	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-7	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-8	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-9	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-10	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-11	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-12	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-13	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-14	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-15	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-16	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-17	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-18	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-19	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	
DSL-20	default		32000	32000	24576000	1024000	16	8	Half Symbol	Half Symbol	

3.2.3.3 PVC Management

The VC management interface provides the modification of the virtual channel and encapsulation type.

PVC Management					
Bridge Port	VC Name	VPI	VCI	Encapsulation Type	
DSL-1	PVC_1	8	35	llc	
DSL-2	PVC_1	8	35	llc	
DSL-3	PVC_1	8	35	llc	
DSL-4	PVC_1	8	35	llc	
DSL-5	PVC_1	8	35	llc	
DSL-6	PVC_1	8	35	llc	
DSL-7	PVC_1	8	35	llc	
DSL-8	PVC_1	8	35	llc	
DSL-9	PVC_1	8	35	llc	
DSL-10	PVC_1	8	35	llc	
DSL-11	PVC_1	8	35	llc	
DSL-12	PVC_1	8	35	llc	
DSL-13	PVC_1	8	35	llc	
DSL-14	PVC_1	8	35	llc	
DSL-15	PVC_1	8	35	llc	
DSL-16	PVC_1	8	35	llc	
DSL-17	PVC_1	8	35	llc	
DSL-18	PVC_1	8	35	llc	
DSL-19	PVC_1	8	35	llc	
DSL-20	PVC_1	8	35	llc	
DSL-21	PVC_1	8	35	llc	
DSL-22	PVC_1	8	35	llc	
DSL-23	PVC_1	8	35	llc	
DSL-24	PVC_1	8	35	llc	
DSL-25	PVC_1	8	35	llc	
DSL-26	PVC_1	8	35	llc	
DSL-27	PVC_1	8	35	llc	

Modify:

Modify PVC Management

Bridge ID	DSL-1
VC name	PVC_1
VPI	8 (0 ~ 255)
VCI(VCI 3 and 4 is reserved value)	35
Encapsulation Type	llc

[Back](#) [Undo](#) [Apply](#)

3.2.4 VLAN

- VLAN**
 - **VLAN Setup**
 - **VLAN Attachment**

3.2.4.1 VLAN Setup

This page allows the user to create, modify and delete the information of the VLANs. Click VLAN Setup of VLAN under the Configuration menu to display the page below.

Display all bridge VLAN manager info							
VID	Mode	Flood Enable	Unknown MAC CIR(bps)	Unknown MAC LBS(ms)	Broadcast CIR(bps)	Broadcast LBS(ms)	Port Isolation
1	1-n	Enable	1000000	500	1000000	500	Enable
Page: 1		Delete	Modify	Create			

Note: The default VLAN 1 cannot be deleted.

To create or modify the any specific VLAN, simply click on the “Create” button or select on the desired VLAN and click on the “Modify” button to display the creation or modification page. Then, enter the desired information to the corresponding fields and click “Apply” to save the changes.

Create:

Create VLAN

VID	<input type="text"/> (1 ~ 4093)
Mode	<input type="text"/> 1-n
Unknown CIR(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 1000000
Unknown LBS(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 500
Broadcast CIR(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 1000000
Broadcast LBS(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 500
Isolation	<input type="text"/> Enable
Back Undo Apply	

Modify:

VLAN Setup

Modify VLAN

VID	<input type="text"/> 1
Flood enable	<input type="text"/> Enable
Unknown CIR(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 1000000
Unknown LBS(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 500
Broadcast CIR(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 1000000
Broadcast LBS(bps)(100~ 1073741824(1Gbps))	<input type="text"/> 500
Isolation	<input type="text"/> Enable
Back Undo Apply	

2.2.4.2 VLAN Attachment

This page allows the user to attach any specific VLAN ID to the bridge port. Click VLAN

Attachment of VLAN under the Configuration menu to display the page below. To modify any specific PVC, simply select the desired VLAN ID and click on the “Modify” button to display the modification page. Choose the desired option from the dropdown list and check the desired checkbox, and then click on the “Apply” to save the settings.

VLAN's port member list	
VID	Port Members
1	DSL-01[VC1-U],DSL-02[VC1-U],DSL-03[VC1-U],DSL-04[VC1-U],DSL-05[VC1-U],DSL-06[VC1-U],DSL-07[VC1-U],DSL-08[VC1-U],DSL-09[VC1-U],DSL-10[VC1-U],DSL-11[VC1-U],DSL-12[VC1-U],DSL-13[VC1-U],DSL-14[VC1-U],DSL-15[VC1-U],DSL-16[VC1-U],DSL-17[VC1-U],DSL-18[VC1-U],DSL-19[VC1-U],DSL-20[VC1-U],DSL-21[VC1-U],DSL-22[VC1-U],DSL-23[VC1-U],DSL-24[VC1-U],DSL-25[VC1-U],DSL-26[VC1-U],DSL-27[VC1-U],DSL-28[VC1-U],DSL-29[VC1-U],DSL-30[VC1-U],DSL-31[VC1-U],DSL-32[VC1-U],DSL-33[VC1-U],DSL-34[VC1-U],DSL-35[VC1-U],DSL-36[VC1-U],DSL-37[VC1-U],DSL-38[VC1-U],DSL-39[VC1-U],DSL-40[VC1-U],DSL-41[VC1-U],DSL-42[VC1-U],DSL-43[VC1-U],DSL-44[VC1-U],DSL-45[VC1-U],DSL-46[VC1-U],DSL-47[VC1-U],DSL-48[VC1-U],ETH-01[VC1-U],ETH-02[VC1-U]
Page: <input type="text" value="1"/> <input type="button" value="Modify"/>	

Modify VLAN Attaching	
VLAN ID:	1
VLAN MODE:	1-n
VLAN Flood Mode:	Enable
Attached Bridge Port:	Attached PVC
DSL-1	PVC_1
DSL-2	PVC_1
DSL-3	PVC_1
DSL-4	PVC_1
DSL-5	PVC_1
DSL-6	PVC_1
DSL-7	PVC_1
DSL-8	PVC_1
DSL-9	PVC_1
DSL-10	PVC_1
DSL-11	PVC_1
DSL-12	PVC_1
DSL-13	PVC_1
DSL-14	PVC_1
DSL-15	PVC_1
DSL-16	PVC_1
DSL-17	PVC_1
DSL-18	PVC_1
DSL-19	PVC_1
DSL-20	PVC_1
DSL-21	PVC_1
DSL-22	PVC_1
DSL-23	PVC_1
DSL-24	PVC_1

3.2.5 QoS

QoS
•Ingress
•Egress

In this page, user can configure Quality of Service (QoS) policies for classification.

3.2.5.1 Ingress

- Ingress**
 - Policer Setup
 - Policer Attachment

3.2.5.1.1 Policer Setup

Get a list of all Ingress queue objects						
ID	CIR(bps)	SLBS(msec)	EIR(bps)	DLBS(msec)	COS Rule-1	COS Rule-2

[Delete] [Modify] [Create]

To create or modify any specific ingress policer, simply click on the “Create” button or select on the desired Ingress ID and click on the “Modify” button to display the creation or modification page. Then, enter the desired information to the corresponding fields and click “Create” or “Modify” to save the changes accordingly.

Modify:

Create Ingress Queue Setup	
TC ID	1
TC Type	SLBS
CIR (bps)	200
SLBS(msec)	200
COS Rule-1	4
COS Rule-2	7

[Back] [Undo] [Modify]

Create:

Create Ingress Queue Setup	
Ingress ID	1
Ingress Type	SLBS
CIR (bps)	100
SLBS(msec)	100
COS Rule-1	0
COS Rule-2	0

[Back] [Undo] [Create]

3.2.5.1.2 Policer Attachment

In this page, user can attach/detach a policer to/from the port ID.

Ingress Priority Attachment List					
ID	CIR(bps)	SLBS(msec)	EIR(bps)	DLBS(msec)	COS Rule-1
					<input type="button" value="Attach"/>

Attach a policer to a port ID:

Create Policer	
Bridge Port ID	<input type="button" value="DSL-1"/>
Policer ID	<input type="button" value="1"/>
<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Create"/>	

3.2.5.2 Egress

- **Egress**
 - Contract Setup
 - Scheduler Setup
 - PQBlock Setup

3.2.5.2.1 Contract Setup

Traffic Contract List						
TC ID	Type	CIR/PCR (bps)	CDVT (10ns,only ATM)	EIR/SCR (bps)	EBS/MBS (bps)	Weight
<input checked="" type="radio"/> Default	WFQ/Unshaped	N/A	N/A	N/A	N/A	1

Members:

Modify:

Egress Scheduler Setup	
TC Type	WFQ/Unshaped
TC ID	<input type="button" value="1"/>
Weight	<input type="button" value="0"/>
<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Modify"/>	

Create:

Egress Scheduler Setup	
TC ID	<input type="button" value="1"/>
TC Type	<input type="button" value="WFQ/UNSHAPING"/>
Weight	<input type="button" value="0"/>
Weight Fraction	<input type="button" value="0"/>
<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Create"/>	

3.2.5.2.2 Scheduler Setup

Scheduler Profile List									
Scheduler ID	Profile Name	Priority Mode	Priority Queue ID	TC ID	CIR/PCR		EIR/VBR		WFQ
					CIR/PCR(bps)	CBS(msec)	EIR/SCR(bps)	EBS/MBS(msec)	
1	"Profile1"	ATM-PVC							<input type="button" value="View"/>

Press “View” button to view the detail of the profile:

Scheduler Profile List									
Scheduler ID	Profile Name	Priority Mode	Priority Queue ID	TC ID	CIR/PCR		EIR/VBR		WFQ
					CIR/PCR(bps)	CBS(msec)	EIR/SCR(bps)	EBS/MBS(msec)	
1	"Profile1"	ATM-PVC							<input type="button" value="View"/>
			0	Default	0	0	0	1	0
			1	Default	0	0	0	1	0
			2	Default	0	0	0	1	0
			3	Default	0	0	0	1	0
			4	Default	0	0	0	1	0
			5	Default	0	0	0	1	0
			6	Default	0	0	0	1	0
			7	Default	0	0	0	1	0

Create:

Scheduler Profile Setup									
Scheduler ID	1								
Profile Name	<input type="text"/>								
Priority Mode	<input type="button" value="ATM-PVC"/>								
Channel id	TC id								
Virtual Channel-0	<input type="button" value="Default"/>								
Virtual Channel-1	<input type="button" value="Default"/>								
Virtual Channel-2	<input type="button" value="Default"/>								
Virtual Channel-3	<input type="button" value="Default"/>								
Virtual Channel-4	<input type="button" value="Default"/>								
Virtual Channel-5	<input type="button" value="Default"/>								
Virtual Channel-6	<input type="button" value="Default"/>								
Virtual Channel-7	<input type="button" value="Default"/>								

3.2.5.2.3 PQBlock Setup

This page allows user to create a priority queue block. Simply choose the bridge port and desired profile name, and press “Apply” button to apply the settings.

Create a Priority Queue(PQ) Block									
Bridge Port :	<input type="button" value="DSL-1"/>								
<input type="button" value="Create"/>									

Create:

Create PQ Block

Bridge port ID	1
Profile Name	"Profile1"
Priority Mode	ATM-PVC
Channel id	TC id
Virtual Channel0	Default
weight: 1 weight_fraction: 0	

Back Undo Apply

3.2.6 Protocol Based VLAN

- Protocol Based VLAN**
- PBV Setup
 - PBV Attachment

3.2.6.1 PBV Setup

This page displays all the rules in a PBV group. User will be able to create, modify and delete the PBV groups as well as their rules. Click PBV Setup of Protocol Based VLAN under the Configuration menu to display the page below.

PBV ID : 2 Create PBV Group ID Delete PBV Group ID

PBV Rule List

Rule ID	EtherType	SVID
1	0x800	1
2	0x806	1

Delete Modify Create

First, click “Create PBV Group ID” then it will increase the PBV ID value automatic.

Then, use the dropdown list to select which PBV ID to modify. Next, click the “Create” or “Modify” button to edit the rule for that specific PBV ID as the page below. Finally, select the desired option and click “Apply” to make the changes.

Create Modify PBV

PBV ID	3
EtherType	0x800
VID	1

Back Undo Apply

Field	Description
PBV ID	PBV Group Index. Valid values: 1-15
EtherType	Ethernet type protocol ID. Valid values: IPv4 0x0800 ARP 0x0806

	802.1Q 0x8100 IPv6 0x86dd 802.1X 0x888e 802.1ad 0x88a8 OAM 0x8902 Q-in-Q 0x9100 LLT 0xafe
VID	VLAN ID. Valid values: 1-4093

3.2.6.2 PBV Attachment

This page allows user to attach a bridge port to a PBV group.

Simply choose the specific bridge port and PBV ID, then select Detach or Attach.

Attaches a bridge port to a PBV group

Bridge Port : DSL-1

PBV ID	Rule Number	EtherType	VID
1	1	0x0800	1
1	2	0x8100	100

This page allows the user to attach certain PBV to any specific bridge ports. Simply select which bridge port to modify first by choosing the option in the dropdown list. Then, click “Attach” button to display the attaching page as below. Again, simply use the dropdown list to select the desired PBV ID to attach and click “Apply” to save the settings.

Create PBV Attachment

Bridge Port	2
PBV ID	2
<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Apply"/>	

3.3 Advanced

3.3.1 Protocol Enable

Protocol Enable

- Protocol Setup
- Protocol Attachment

3.3.1.1 Protocol Setup

This page allows the user to get a list of all DFC accelerator filter groups as well as enable different protocols. Click Protocol Setup of Protocol Enable under the Advanced menu to display the page below.

Get Protocol enable mode					
ID	Number of links	Reserved multicast filter	PPPoE Discovery filter	IGMP filter	DHCP filter
<input checked="" type="radio"/> 1	26	On <input type="button" value="▼"/>	Off <input type="button" value="▼"/>	On <input type="button" value="▼"/>	Off <input type="button" value="▼"/>
<input type="button" value="Delete"/> <input type="button" value="Create"/> <input type="button" value="Apply"/>					

First, click “Create” button to display the creation page for creating DFC filters group including reserved multicast Mac, PPPoE, ARP, IGMP and DHCP packet as below. Simply use the dropdown list to select the desired options to enable and click “Apply” to create the Filter Group.

Create a DFC accelerator filters group	
ID	<input type="button" value="2"/> <input type="button" value="▼"/>
Reserved multicast filter	On <input type="button" value="▼"/>
PPPoE Discovery filter	On <input type="button" value="▼"/>
IGMP filter	On <input type="button" value="▼"/>
DHCP filter	On <input type="button" value="▼"/>
<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Apply"/>	

3.3.1.2 Protocol Attachment

Then, attach any specific group ID by clicking on the Protocol Attachment page.

Attach bridge port to DFC accelerator filters group	
Protocol ID	Port Members
<input checked="" type="radio"/> 1	ETH-01,ETH-02,
<input type="radio"/> 2	DSL-01,DSL-02,DSL-03,DSL-04,DSL-05,DSL-06,DSL-07,DSL-08,DSL-09,DSL-10,DSL-11,DSL-12,DSL-13,DSL-14,DSL-15,DSL-16,DSL-17,DSL-18,DSL-19,DSL-20,DSL-21,DSL-22,DSL-23,DSL-24,DSL-25,DSL-26,DSL-27,DSL-28,DSL-29,DSL-30,DSL-31,DSL-32,DSL-33,DSL-34,DSL-35,DSL-36,DSL-37,DSL-38,DSL-39,DSL-40,DSL-41,DSL-42,DSL-43,DSL-44,DSL-45,DSL-46,DSL-47,DSL-48
<input type="button" value="Modify"/>	

Simply check the desired option from the checkbox and click “Apply” to save the settings.

Attach bridge port to DFC accelerator filters group	
Protocol ID:	1
Attached Bridge Port:	Attach
DSL-1	<input checked="" type="checkbox"/> Attach All
DSL-2	<input checked="" type="checkbox"/>
DSL-3	<input checked="" type="checkbox"/>
DSL-4	<input checked="" type="checkbox"/>
DSL-5	<input checked="" type="checkbox"/>
DSL-6	<input checked="" type="checkbox"/>
DSL-7	<input checked="" type="checkbox"/>
DSL-8	<input checked="" type="checkbox"/>
DSL-9	<input checked="" type="checkbox"/>
DSL-10	<input checked="" type="checkbox"/>
DSL-11	<input checked="" type="checkbox"/>
DSL-12	<input checked="" type="checkbox"/>
DSL-13	<input checked="" type="checkbox"/>
DSL-14	<input checked="" type="checkbox"/>
DSL-15	<input checked="" type="checkbox"/>
DSL-16	<input checked="" type="checkbox"/>
DSL-17	<input checked="" type="checkbox"/>
DSL-18	<input checked="" type="checkbox"/>
DSL-19	<input checked="" type="checkbox"/>
DSL-20	<input checked="" type="checkbox"/>
DSL-21	<input checked="" type="checkbox"/>
DSL-22	<input checked="" type="checkbox"/>
DSL-23	<input checked="" type="checkbox"/>
DSL-24	<input checked="" type="checkbox"/>
DSL-25	<input checked="" type="checkbox"/>
DSL-26	<input checked="" type="checkbox"/>
DSL-27	<input checked="" type="checkbox"/>

3.3.2 SNMP



3.3.2.1 SNMP HOST Setup

This page allows the user to create the SNMP HOST List. Click SNMP HOST Setup of SNMP under the Advanced menu to display the page below.

SNMP HOST List		
Host Address	Community	Access

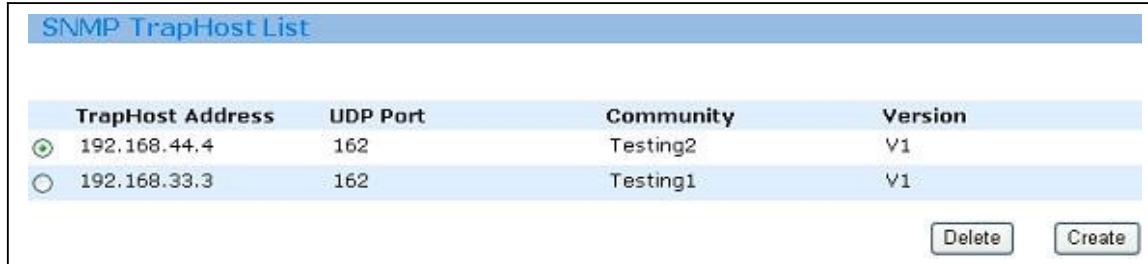
To add a new Host Address, simply click the “Create” button to enter the creation page as below. Enter the desired value into the corresponding fields and click “Apply” to save the settings.



The dialog box has a title bar "SNMP HOST Create". It contains three input fields: "Host Address" (empty), "Community" (empty), and "Access" (set to "RO"). At the bottom are three buttons: "Back", "Undo", and "Apply".

3.3.2.2 SNMP TrapHost Setup

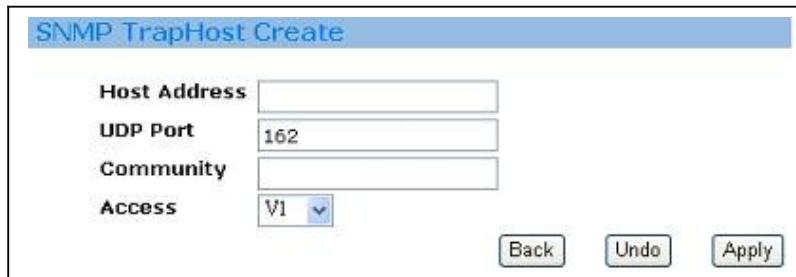
This page allows the user to create the SNMP TrapHost List. Click SNMP TrapHost Setup of SNMP under the Advanced menu to display the page below.



TrapHost Address	UDP Port	Community	Version
192.168.44.4	162	Testing2	V1
192.168.33.3	162	Testing1	V1

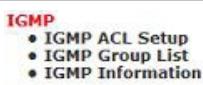
At the bottom right are two buttons: "Delete" and "Create".

To add a new TrapHost Address, simply click the “Create” button to enter the creation page as below. Enter the desired value into the corresponding fields and click “Apply” to save the settings.



The dialog box has a title bar "SNMP TrapHost Create". It contains four input fields: "Host Address" (empty), "UDP Port" (set to "162"), "Community" (empty), and "Access" (set to "V1"). At the bottom are three buttons: "Back", "Undo", and "Apply".

3.3.4 IGMP

- 
- IGMP
 - IGMP ACL Setup
 - IGMP Group List
 - IGMP Information

3.3.4.1 IGMP ACL Setup

This page allows the user to create the IGMP ACL List. Click IGMP ACL Setup of IGMP under

the Advanced menu to display the page below.

IGMP ACL Setup					
ACL Mode	OFF				
VLAN Translation Mode	OFF				
			Apply		
Index	Group IP	Count	Vlan ID	Bridge Port	Provider VLAN ID
1	239.239.239.239	1	1	1	1
2	239.239.239.239	1	1	2	1
3	239.239.239.239	1	1	3	1
4	239.239.239.239	1	1	4	1
5	239.239.239.239	1	1	5	1
6	239.239.239.239	1	1	6	1
7	239.239.239.239	1	1	7	1
8	239.239.239.239	1	1	8	1
9	239.239.239.239	1	1	9	1
10	239.239.239.239	1	1	10	1
11	239.239.239.239	1	1	11	1
12	239.239.239.239	1	1	12	1
13	239.239.239.239	1	1	13	1
14	239.239.239.239	1	1	14	1
15	239.239.239.239	1	1	15	1
16	239.239.239.239	1	1	16	1
17	239.239.239.239	1	1	17	1
18	239.239.239.239	1	1	18	1
19	239.239.239.239	1	1	19	1
20	239.239.239.239	1	1	20	1
21	239.239.239.239	1	1	21	1
22	239.239.239.239	1	1	22	1
23	239.239.239.239	1	1	23	1
24	239.239.239.239	1	1	24	1
25	239.239.239.239	1	1	25	1
26	239.239.239.239	1	1	26	1
27	239.239.239.239	1	1	27	1
28	239.239.239.239	1	1	28	1
29	239.239.239.239	1	1	29	1
30	239.239.239.239	1	1	30	1

To add a new IGMP ACL, simply click the “Create” button to enter the creation page as below. Enter the desired value into the corresponding fields and click “Apply” to save the settings.

Create IGMP ACL	
Bridge Port ID	DSL-1
Group IP	<input type="text"/>
Count	<input type="text"/> 1
Vlan ID	<input type="text"/> 1
Provider VLAN ID	<input type="text"/> 1
	<input type="button" value="Back"/> <input type="button" value="Undo"/> <input type="button" value="Apply"/>

3.3.4.2 IGMP Group List

- **IGMP Group List**
- Group List
- Group's Sources List

3.3.4.2.1 Group List

This page allows the user to create the IGMP Group List. Click Group List of IGMP Group List under the Advanced menu to display the page below.

Group List						
Index	Group IP	Vlan ID	Member Add Action	Port Numbers	Port Members	Sources Numbers Group Join Type
1	239.1.1.2	1	1	1	DSL-1,	0 Static

To add a new Group member, simply click the “Edit” button to enter the creation page as below. Enter the desired value into the corresponding fields and click “Apply” to save the settings.

Add Member	
Group IP	<input type="text"/>
Vlan ID	<input type="text"/> 1 <input type="button" value="Edit"/>
Bridge Port ID	<input type="checkbox"/> Check to add bridge port member <input type="checkbox"/> Add All <input checked="" type="checkbox"/> DSL-1 <input type="checkbox"/> DSL-2 <input type="checkbox"/> DSL-3 <input type="checkbox"/> DSL-4 <input type="checkbox"/> DSL-5 <input type="checkbox"/> DSL-6 <input type="checkbox"/> DSL-7 <input type="checkbox"/> DSL-8 <input type="checkbox"/> DSL-9 <input type="checkbox"/> DSL-10 <input type="checkbox"/> DSL-11 <input type="checkbox"/> DSL-12 <input type="checkbox"/> DSL-13 <input type="checkbox"/> DSL-14 <input type="checkbox"/> DSL-15 <input type="checkbox"/> DSL-16 <input type="checkbox"/> DSL-17 <input type="checkbox"/> DSL-18 <input type="checkbox"/> DSL-19 <input type="checkbox"/> DSL-20 <input type="checkbox"/> DSL-21 <input type="checkbox"/> DSL-22 <input type="checkbox"/> DSL-23 <input type="checkbox"/> DSL-24 <input type="checkbox"/> DSL-25 <input type="checkbox"/> DSL-26 <input type="checkbox"/> DSL-27 <input type="checkbox"/> DSL-28

Group List						
Index	Group IP	Vlan ID	Member Add Action	Port Numbers	Port Members	Sources Numbers Group Join Type
1	239.1.1.2	1	1	1	DSL-1,	0 Static

3.3.4.2.2 Group's Sources List

This page shows the entire group's source list. Click Group Sources List of IGMP Group Setup under the Advanced menu to display the page below.

Group's Sources List				
Group IP	Vlan ID	Group Mode	Group's Sources IP	Timer
Page: <input type="text" value="1"/>				

3.3.4.3 IGMP Information

- IGMP Information
- General Information
- Timer Information

3.3.4.3.1 General Information

This page shows all the general information of the IGMP. Click General Information in the IGMP Information of IGMP under the Advanced menu to display the page below.

General Information	
Version	2
Proxy Mode	ON
Fast Leave	ON
Deny no alert	OFF
Proxy IP	0.0.0.0
Robustness variable	2
Newer version log limit	3
Newer version suppress time	300
Default group limit	10
Maximum IGMP ports	800
Maximum IGMP vlangs	4094

[Modify](#)

To modify the general information, click the “Modify” button to enter the modification page as below. Simply select the desired option from the dropdown list and click “Apply” to save the settings.

Modify General Information

Proxy Mode	<input type="button" value="ON"/>
Fast Leave	<input type="button" value="ON"/>
Proxy IP	<input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="20"/> . <input type="text" value="40"/>
Robustness variable (2~10)	<input type="text" value="2"/>

[Back](#) [Undo](#) [Apply](#)

3.3.4.3.2 Timer Information

This page shows all the Timer information of the IGMP. Click Timer Information in the IGMP Information of IGMP under the Advanced menu to display the page below.

Timer Information	
Query Interval	125.0
Older Host Present	400.0
Maximum response Time	10.0
Group Membership Interval	260.0
Last Member Query Interval	1.0
Unsolicited Report Interval	1.0

To modify the general information, click the “Modify” button to enter the modification page as below. Simply select the desired option from the dropdown list and click “Apply” to save the settings.

Modify Timer Information	
Timer Type	<input type="button" value="Query Interval"/>
Timeout(Sec)	<input type="text" value="0"/>
Timeout(100ms)	<input type="text" value="0"/>

3.3.5 DLI Setup

This page allows the user to setup the DLI. Click DLI Setup under the advanced menu to display the page below. Simply select the Subpot mode and Trusted Ports for the desired Bridge Port, then give it the Circuit ID and Remote ID by entering the desired values into the corresponding fields. Finally, click on “Apply” to save the settings.

DII Setup				
Bridge Port ID	Subopt Mode	Trusted Ports	Circuit ID	Remote ID
1	None	NO		
2	None	NO		
3	None	NO		
4	None	NO		
5	None	NO		
6	None	NO		
7	None	NO		
8	None	NO		
9	None	NO		
10	None	NO		
11	None	NO		
12	None	NO		
13	None	NO		
14	None	NO		
15	None	NO		
16	None	NO		
17	None	NO		
18	None	NO		
19	None	NO		
20	None	NO		
21	None	NO		
22	None	NO		
23	None	NO		
24	None	NO		
25	None	NO		
26	None	NO		
27	None	NO		
28	None	NO		
29	None	NO		
30	None	NO		
31	None	NO		

3.3.6 SNTP

This page displays the SNTP server IP address and the status. Click the SNTP under the Advanced menu to display the page below.

Get SNTP Server List	
Server Addr	Status
SNTP Enable	
False	
	<input type="button" value="Set TimeZone"/> <input type="button" value="Delete"/> <input type="button" value="Modify"/> <input type="button" value="Create"/>

3.3.6.1 TimeZone

System Info

Description:	ADSL2+IPDSLAM
Name:	<input type="text"/>
Location:	<input type="text"/>
Contact:	<input type="text"/>
Vendor:	<input type="text"/>
Log Threshold:	0
Object-ID:	1.3.6.1.4.1.30544
Up Time(HH:MM:SS):	2:26:22
P/N:	
HwVersion:	1.3
CPLDVersion:	1.2
LinuxVersion:	2.6.10_dev-wp_wds-mips2_fp_be
CPSwVersion:	D-Link_DAS-3248_D.1.1.401.60_14/5/2014 [API:GS_CMX_445 FW:3.24_138] Default Config
CPSwVersion(Build):	14:20:03 May 14 2014
DP Version:	WDDI 3.4
System Time: (mon dd hh:mm:ss year)	<input type="button" value="Set"/> <input type="button" value="Jan"/> <input type="button" value="01"/> <input type="button" value="02"/> <input type="button" value=": 26"/> <input type="button" value=": 21"/> <input type="button" value="2000"/> <input type="button" value="Set SNTP"/>
Time Zone:	<input type="button" value="GMT-0000 GMT"/> GMT-1200 IDLW
DST:	

To create a new SNTP server, click the “Create” button to enter the creation page as below. Simply enter the desired values into the fields and click “Apply” to save the settings.

Create sntp servaddr

Server Addr	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="button" value="Back"/>	<input type="button" value="Undo"/>	<input type="button" value="Apply"/>	

To enable or disable the SNTP, click the “Modify” button to enter the modification page as below. Simply select the desired option from the dropdown list and click “Apply” to save the settings.

Modify SNTP Config

SNTP Enable	<input type="button" value="True"/> <input type="button" value="False"/>		
	<input type="button" value="Back"/>	<input type="button" value="Undo"/>	<input type="button" value="Apply"/>

3.3.7 STP/RSTP

- STP/RSTP**
 - STP/RSTP Info
 - STP/RSTP Port

3.3.7.1 STP/RSTP Info

This page displays the general information of the STP. Click the STP Info of STP/RSTP under the Advanced menu to display the page below.

Get stp info	
STP Enable	False
Version	RSTP
Local Bridge ID	80 00 00 11 22 33 44 01
Time Since Last Topology Change	5958
Designated Root	80 00 00 11 22 33 44 01
Root Port ID	N/A
Root Path Cost	0
Max Aging Time(seconds)	20
Hello Time(seconds)	2
Hold Time(seconds)	3
Forward Delay(seconds)	15
Topology Change Counter	3

[Modify](#)

To modify the STP Info, click the “Modify” button to enter the modification page as below. Simply enter the desired information and click “Apply” to save the settings.

Modify STP Information			
STP Enable	<input type="button" value="False"/>		
Version	<input type="button" value="RSTP"/>		
Bridge Priority(2 bytes)	32768		
Max Aging Time(seconds)	20		
Hello Time(seconds)	2		
Forward Delay(seconds)	15		
Parameters	Recommended or Default value	Range	Note
Hello Time	2.0	1.0 - 10.0	
Max Aging Time	20.0	6.0 - 40.0	See note 1
Forward Delay	15.0	4.0 - 30.0	
Note 1. Legal range of Max Aging time is 2 * (Hello Time + 1.0 seconds) <= Max Aging time <= 2 * (Forward Delay - 1.0 seconds)			
Note 2. Legal value of Bridge Priority must be multiple of 4096(0x1000)			
Back Undo Apply			

3.3.7.2 STP/RSTP Port

This page displays the general information of the STP. Click the STP Info of STP/RSTP under the Advanced menu to display the page below.

Get STP Ports Info																
Port ID	Priority	Role	State	Cost	Designated Root ID	Designated Cost	Designated Bridge ID	Designated Port ID	Counter	Version						
○ ETH-1	128	DESIGNATED	FORWARDING	100	80 00 00 AA BB CC DD E1	0	80 00 00 AA BB CC DD E1	0x8061	1	RSTP						
○ ETH-2	128	DESIGNATED	FORWARDING	100	80 00 00 AA BB CC DD E1	0	80 00 00 AA BB CC DD E1	0x8062	1	RSTP						

[Modify](#)

To modify the STP Ports Info, click the “Modify” button to enter the modification page as below. Simply enter the desired information and click “Apply” to save the settings.

Modify STP Port

Port ID	ETH-2
Priority	128
Cost	100

[Back](#) [Undo](#) [Apply](#)

3.3.8 802.1x

802.1X

- Server List
- Port List

3.3.8.1 Server List

This page displays the list of existing server information. Click the Server List of 802.1X under the Advanced menu to display the page below.

RADIUS Server List				
Service Mode : Disable Enable				
	IP Address	Secret	username	password
○	66.55.44.33	"1"	"1"	"1"

[Delete](#) [Create](#)

To create a new 802.1X server, click the “Create” button to enter the creation page as below. Simply enter the desired values into the fields and click “Apply” to save the settings.

Create RADIUS Server

IP Address	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Secret	<input type="text" value="1"/>			
username	<input type="text" value="1"/>			
password	<input type="text" value="1"/>			

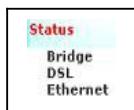
[Back](#) [Undo](#) [Apply](#)

3.3.8.2 Port List

This page displays the list of 802.1X port status. Click the Port List of 802.1X under the Advanced menu to display the page below. To modify the port status, simply select the desired options and click “Apply” to save the settings.

Display the list of 802.1x port status	
Port ID	Mode
DSL-1	Auto
DSL-2	Auto
DSL-3	Auto
DSL-4	Auto
DSL-5	Auto
DSL-6	Auto
DSL-7	Auto
DSL-8	Auto
DSL-9	Auto
DSL-10	Auto
DSL-11	Auto
DSL-12	Auto
DSL-13	Auto
DSL-14	Auto
DSL-15	Auto
DSL-16	Auto
DSL-17	Auto
DSL-18	Auto
DSL-19	Auto
DSL-20	Auto
DSL-21	Auto
DSL-22	Auto
DSL-23	Auto
DSL-24	Auto
DSL-25	Auto
DSL-26	Auto
DSL-27	Auto
DSL-28	Auto
DSL-29	Auto
DSL-30	Auto
DSL-31	Auto

3.4 Status



3.4.1 Bridge



3.4.1.2 Forwarding Database

This page shows the Forwarding Database. Click Forwarding Database of Bridge under Status menu to display the page below. User will be able to present the FDB by sorting. Simply enter the matching criteria into the blank and click “Search” to sort.

FDB(Forwarding Data Base)						
Sort by		All	matching	Search		
MAC	SVID	CVID	Port	Mode	Action	Type
01:00:5E:01:01:02	1	N/A	N/A	static	accept	single VLAN
00:40:F4:2A:B0:26	1	N/A	97	dynamic	accept	single VLAN
00:11:22:33:44:01	1	N/A	101	static	accept	single VLAN
00:11:22:33:44:02	1	N/A	102	static	accept	single VLAN
00:0C:29:3F:17:72	1	N/A	97	dynamic	accept	single VLAN

Page: 1

DSL-1 Flush All Entries Of The Bridge Port

3.4.2 DSL

- DSL**
 - Line
 - Channel

3.4.2.1 Line Status

This page allows the user to choose and show the DSL line status of any specific DSL ports. Click Line Status in DSL of the Status menu to display the following page. To show the Line Status of particular bridge port, simply select the corresponding option from the dropdown list to display it.

DSL Line Status										
DSL No.	Description	OP	Admin	SNR Margin(dB)	Attenuation(dB)	Tx PSD(dBm/Hz)	Tx Power(dBm)	Line Rate(Mbps)	Attainable Rate(Mbps)	Up Time(HH:MM:SS)
1	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
2	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
3	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
4	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
5	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
6	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
7	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
8	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
9	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
10	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
11	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
12	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
13	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
14	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
15	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
16	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
17	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
18	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
19	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
20	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
21	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
22	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
23	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0
24	handshake	active	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0:0:0

Port 1~24 Port 25~48

3.4.2.2 Channel Status

This page allows the user to choose and show the DSL channel status of any specific DSL ports. Click Channel Status in DSL Status of the Status menu to display the following page.

To show the Channel Status of particular bridge port, simply select the corresponding option from the dropdown list to display it.

DSL Channel Status							
DSL No.	Description	Max Interleave Delay(ms)	Interleaving Depth(D)	Current Data Rate(Mbps)	CRC Block Lenth(bytes)	RS Code Symbol Number	RS Redundancy Bytes
1		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
2		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
3		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
4		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
5		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
6		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
7		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
8		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
9		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
10		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
11		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
12		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
13		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
14		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
15		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
16		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
17		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
18		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
19		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
20		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
21		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
22		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
23		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0
24		0/0	0/0	0.00/ 0.00	0/0	0/0	0/0

Port 1~24 Port 25~48

3.4.3 Ethernet Status

This page allows the user to check the Ethernet Interface Status information. Click Ethernet of the Status menu to display the following page. To extract the most current status of the Ethernet interface, simply click “Refresh” to display the most current status.

Ethernet Interface Status											
Interface	Media	MAC Address	IP Address	Subnet Mask	Gateway	Speed (Mbps)	Duplex	OP State	Management SVID	Management CVID	
Eth1	Copper	00 11 22 33 44 01	192.168.100.111	255.255.255.0	192.168.100.254	100	Full	Up	-	-	
Eth2	-	00 11 22 33 44 02	192.168.1.111	255.255.255.0	0.0.0.0	-	-	Down	-	-	

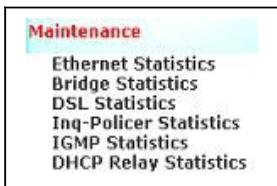
Begin IP Address

End IP Address

Interface

Refresh

3.5 Maintenance



3.5.1 Ethernet Statistics

This page shows all the Ethernet interface statistics. Click ETH IF Statistics under Maintenance menu to present the page below. Simply select the desired ETH interface name from the dropdown list to display the information.

Ethernet Interface Statistics		
ETH IF NAME	Mgmt	
Direction	Received	Transmitted
Packets	2457	1941
Bytes	293661	1359381
Error	0	0
Dropped	0	0
Unicast	-	-
Multicast	0	-
Broadcast	-	-
	Reset	Refresh

3.5.2 Bridge Statistics

This page shows all the bridge statistics. Click Bridge Statistics under Maintenance menu to present the page below. Simply select the desired Bridge port ID from the dropdown list to display the information.

Bridge Port Statistics						
Bridge Port ID		DSL-1				
Passed Packets	All	Broadcast	Multicast			
	0	0	0			
Discard Packets	VLAN Acceptable Filter	Ingress Filter	Bridge Classifier	Unknown MAC	Deny SA	Deny DA
	0	0	0	0	0	Protocol Error
Forwarded Packets	All	Unicast	Broadcast	Multicast		
	27	0	24	3		272
					Reset	Refresh

3.5.3 DSL Statistics

- DSL Statistics
- Line Monitor Report**
 - Current
 - 15-Minute
 - 1-Day

Current Line Report

This page shows current line statistics. Click DSL Statistics under Maintenance menu to present the page below. Click “Refresh” to display the most current status.

Current Line Report											<input type="checkbox"/> Reset All	
Network Side/Customer Side		DSL No.	UAS	LOSS	LOFS	LOLS	LPRS	FECS	ESS	SES	Elapsed Time	<input type="checkbox"/>
1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
2	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
3	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
7	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
9	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
10	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
11	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
12	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11745/11745	<input type="checkbox"/>
13	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
14	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
15	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
16	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
17	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
18	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
19	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
20	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
22	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
23	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
25	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>
26	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	11746/11746	<input type="checkbox"/>

15-Minute Line Report

This page displays the DSL Statistics Report of every 15 minutes of the current day. Click 15-Minute Report of DSL Statistics under Maintenance menu to display the following page. Simply select the desired Bridge Port ID as well as the Interval ID to display particular 15 Minutes Report of the current day. Click “Refresh” to display the most current status.

15 Minutes Line Report							
Port ID	DSL-1	Network Side/Customer Side, Elapsed Time=900 Sec					
15-Min Period	UAS	LOSS	LOFS	LOLS	LPRS	FECS	SES
1	0/0	0/0	0/0	0/0	0/0	0/0	0/0
2	0/0	0/0	0/0	0/0	0/0	0/0	0/0
3	0/0	0/0	0/0	0/0	0/0	0/0	0/0
4	0/0	0/0	0/0	0/0	0/0	0/0	0/0
5	0/0	0/0	0/0	0/0	0/0	0/0	0/0
6	0/0	0/0	0/0	0/0	0/0	0/0	0/0
7	0/0	0/0	0/0	0/0	0/0	0/0	0/0
8	0/0	0/0	0/0	0/0	0/0	0/0	0/0
9	0/0	0/0	0/0	0/0	0/0	0/0	0/0
10	0/0	0/0	0/0	0/0	0/0	0/0	0/0
11	0/0	0/0	0/0	0/0	0/0	0/0	0/0
12	0/0	0/0	0/0	0/0	0/0	0/0	0/0
13	0/0	0/0	0/0	0/0	0/0	0/0	0/0
14	0/0	0/0	0/0	0/0	0/0	0/0	0/0
15	0/0	0/0	0/0	0/0	0/0	0/0	0/0
16	0/0	0/0	0/0	0/0	0/0	0/0	0/0

1-Day Line Report

This page displays the DSL Statistics Report for 1 day intervals. Click 1-Day Report of DSL Statistics under Maintenance menu to display the following page. Simply select the desired Bridge Port ID as well as the Interval ID to display report of the current day. Click “Refresh” to display the most current status.

One Day Line Report							
Port ID	DSL-1	Network Side/Customer Side, Elapsed Time=0 Sec					
1-Day Period	UAS	LOSS	LOFS	LOLS	LPRS	FECS	SES
1	0/0	0/0	0/0	0/0	0/0	0/0	0/0
2	0/0	0/0	0/0	0/0	0/0	0/0	0/0
3	0/0	0/0	0/0	0/0	0/0	0/0	0/0
4	0/0	0/0	0/0	0/0	0/0	0/0	0/0
5	0/0	0/0	0/0	0/0	0/0	0/0	0/0
6	0/0	0/0	0/0	0/0	0/0	0/0	0/0
7	0/0	0/0	0/0	0/0	0/0	0/0	0/0
8	0/0	0/0	0/0	0/0	0/0	0/0	0/0
9	0/0	0/0	0/0	0/0	0/0	0/0	0/0
10	0/0	0/0	0/0	0/0	0/0	0/0	0/0
11	0/0	0/0	0/0	0/0	0/0	0/0	0/0
12	0/0	0/0	0/0	0/0	0/0	0/0	0/0
13	0/0	0/0	0/0	0/0	0/0	0/0	0/0
14	0/0	0/0	0/0	0/0	0/0	0/0	0/0
15	0/0	0/0	0/0	0/0	0/0	0/0	0/0

3.5.4 Inq-Policer Statistics

Inq-Policer Statistics		
Bridge Port ID	DSL-1	
Ingress Queue ID	Policer Non Conforming(packets)	First Bucket Non Conforming (packets)

3.5.5 IGMP Statistics

- IGMP Statistics**
 - IGMP Member
 - IGMP Port
 - IGMP VLAN

3.5.5.1 IGMP Member Statistics

This page shows all the IGMP Member Statistics. Click IGMP Member Statistics of IGMP Statistics under Maintenance menu to present the page below. Simply select the desired Bridge Port ID from the dropdown list to display the information.

IGMP Member Statistics				
Group IP	VLAN ID	Successful Joins	General Queries	Group Queries
239.1.1.2	1	1	32	0
Refresh				

3.4.5.2 IGMP Port Statistics

This page shows all the IGMP Port Statistics. Click IGMP Port Statistics of IGMP Statistics under Maintenance menu to present the page below.

IGMP Port Statistics			
Bridge ID	Failed Joins	Leaves Rx	Invalid Messages
DSL-1	0	0	0
DSL-2	0	0	0
DSL-3	0	0	0
DSL-4	0	0	0
DSL-5	0	0	0
DSL-6	0	0	0
DSL-7	0	0	0
DSL-8	0	0	0
DSL-9	0	0	0
DSL-10	0	0	0
DSL-11	0	0	0
DSL-12	0	0	0
DSL-13	0	0	0
DSL-14	0	0	0
DSL-15	0	0	0
DSL-16	0	0	0
DSL-17	0	0	0
DSL-18	0	0	0
DSL-19	0	0	0
DSL-20	0	0	0
DSL-21	0	0	0
DSL-22	0	0	0
DSL-23	0	0	0
DSL-24	0	0	0
DSL-25	0	0	0
DSL-26	0	0	0
DSL-27	0	0	0
DSL-28	0	0	0
DSL-29	0	0	0
DSL-30	0	0	0
DSL-31	0	0	0
DSL-32	0	0	0
DSL-33	0	0	0
DSL-34	0	0	0
DSL-35	0	0	0

3.5.5.3 IGMP VLAN Statistics

This page shows all the IGMP VLAN Statistics. Click VLAN Member Statistics of IGMP

Statistics under Maintenance menu to present the page below. Simply select the desired Bridge Port ID from the dropdown list to display the information.

IGMP VLAN Statistics												
VLAN ID	Active Groups	Joins to NW	Successful Joins	Failed User Joins	Total User Joins	Leaves to NW	Leaves From User	Gen Queries User	Gen Queries NW	Grp Queries User	Grp Queries NW	Invalid Messages
1	1	48	48	0	48	0	0	128	0	0	0	0
Refresh												

3.5.6 DHCP Relay Statistics

This page displays the DHCP relay statistics. Click DHCP Relay Statistics under Maintenance menu to display the following page.

Get dhcp relay statistics	
Items Name	Forwarded(Packets)
Bogus agent drop	0
Bogus giaddr drop	0
Client packets relayed	0
Server packet errors	0
Server packets relayed	0
Client packet errors	0
Add agent options	0
Drop agent mismatches	0
Corrupt agent options	0
Missing agent option	0
Bad circuit id	0
Missing circuit id	0
Bad remote id	0
Missing remote id	0