

VDSL HUB Type
(CVL-S1016 & CVL-V1002)
User's Manual

Core Communications Co., Ltd

(Date : Apr. 25th, 2002, Ver. 0, Prepared by Core Communications)

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1. Introduction

1.1 CVL-S1016

VDSL COT, CVL-S1016, provides 16-port managed VDSL Switch with 4-port Ethernet Up-link module and optical Ethernet Up-link module as optional.

- . Base Unit – 1 Sets of 16-port managed VDSL Switch
- . Up-link module: 4-port 10BASE-T/100BASE-TX

Performance

- . Up & Download speed : Max. 13Mbps at 1.5Km (24AWG, no noise condition)
- . 12.8Gbps switch fabric
- . Full-wire speed(full-duplex) operation on all ports.
- . Forwarding Mode : Store and Forward
- . Port packet filtering/forwarding rate : 14,880 pps for 10M / 148,809 pps for 100M
- . Mac Address table : Supports 64K MAC address
- . Address Aging : 300 sec

Port Function

- . Complies with the approved ETSI VDSL requirements
- . Complies with IEEE 802.3 / IEEE 802.3u
- . Support Half/Full Duplex operations
- . Support backpressure at half duplex operation
- . support flow control at full duplex operation

Software Features

- . QoS : Support IEEE802.1p/q Quality of Service
- . VLAN : 802.1Q support
- . Bandwidth control : per port
- . Multi cast : IGMP snooping
- . Management
 - Web based
 - Telnet – three sessions
 - Support MAC address limitation per port
 - DHCP client
 - Console
 - SNMP v1 support
 - Support Ethernet multicasting and broadcasting and flooding control

User's Manual : CVL-S1016 & CVL-V1002 (Ver. 0)

- Load sharing among ports trunked
- . MIB Support : RFC 1213 MIB II
- . Security
 - Connection timeout
 - IP filtering on management interface

Packaging Inspection

Check the shipped contents carefully. Included in the package are ;

- One VDSL DSLAM (CVL-S1016)
- One Console Cable (RJ-45 to RS 232)
- One Power Cable

1.2 CVL-V1002

VDSL CPE, CVL-V1002, provides 1-port VDSL Bridge to enable next-generation simultaneous voice, video and data services including high-speed Internet access, video streaming

- . Base Unit – 1-port VDSL Bridge

Performance

- . Up & Download speed : Max. 13Mbps at 1.5Km (24AWG, no noise condition)
- . Full-wire speed(full-duplex) operation on all ports.
- . Forwarding Mode : Store and Forward
- . Port packet filtering/forwarding rate : 14,880 pps for 10M / 148,809 pps for 100M

Port Function

- . VDSL port in rear panel : Complies with the approved ETSI VDSL requirements
(RJ-11 connector for wall connection)
- . 1/4 10 Base-T / 100 Base-TX port in rear panel :
 - Complies with IEEE 802.3 / IEEE 802.3u
 - Support Half/Full Duplex operations
 - Support backpressure at half duplex operation
 - Support flow control at full duplex operation

Packaging Inspection

Check the shipped contents carefully. Included in the package are ;

- One VDSL CPE (CVL-V1002)
- One 5VDC Power Supply
- One LAN Cable (RJ-45 to RJ-45)

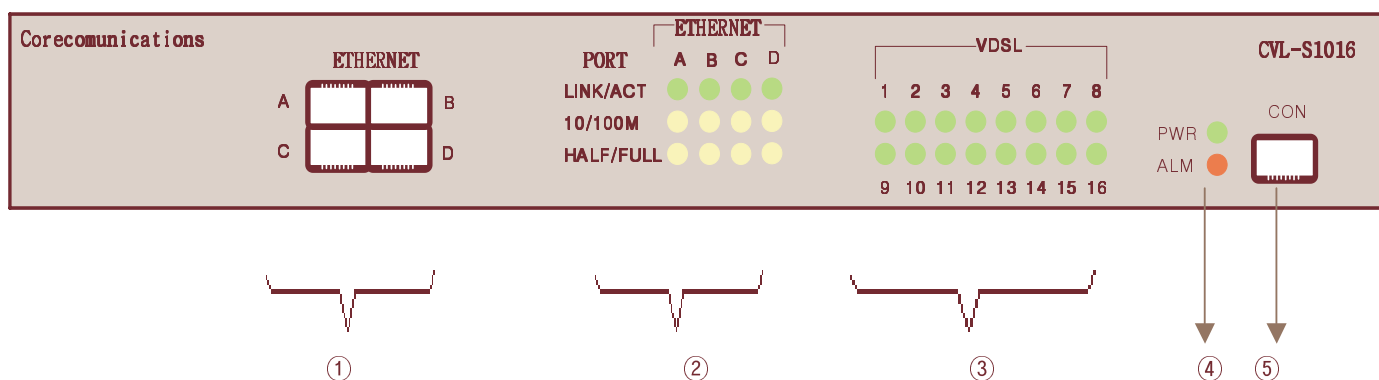
User's Manual : CVL-S1016 & CVL-V1002 (Ver. 0)

- One Line Cable (RJ-11)
- One Phone Cable (RJ-11 to RJ-11)

2. LED Displays and Interface

2.1. CVL-S1016

• Front View



① UP-LINK PORT

- . Provides 4 UP-LINK port (A, B, C, D)
- . Connections
 - with Switching HUB : Cross Cable
 - with File Servers and PC : Straight Cable

② UP-LINK LED Display (A ~ D) : please refer to UP-LINK LED table hereunder

③ VDSL LED Display (1 ~ 16) : please refer to VDSL LED table hereunder

④ PWR/ALM LED : please refer to PWR/ALM LED table hereunder

⑤ Console Port

- . System status display and management by local serial connection
- . Cable : RJ-45 to RS-232.
- . Connection : please refer to cable connection in chapter 7.

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► LED Displays

● UP-LINK LED (A ~ D)

Name	Function	Color	Indication
UP-LINK A, B, C, D	LINK/ACT	GREEN	Display Link status and Data transmission status . Turns green indicating UP-LINK connection . Flashes green when transmitting data
	10/100M	YELLOW	Display UP-LINK speed . Turns yellow at the connection with 100M . Turns off at the connection with 10M
	HALF/FULL	YELLOW	Display transmission mode of UP-LINK . Turns yellow at FULL Duplex mode . Turns off at HALF Duplex mode

● VDSL LED (1 ~ 16)

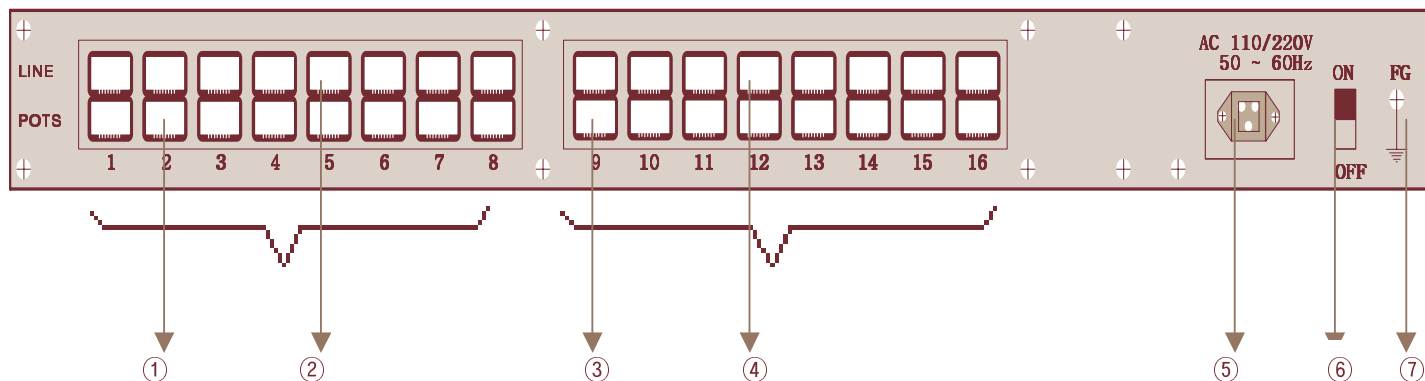
Name	Color	Indication
LINK	GREEN	Display VDSL LINK status . Turns green indicating VDSL LINK connection

● PWR/ALM LED

Name	Color	Indication
PWR	GREEN	Turns green when there is a power source available.
ALM	RED	Displays System and CPU status . Turns red at System error and CPU failure

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• Rear View



► Interfaces

① , ③ POTS(VOICE) Interface (1 ~ 16)

- . Connection with POTS
- . RJ-11 Interface

②, ④ LINE (DSL) Interface (1 ~ 16)

- . Connection with subscriber
- . RJ-11 Interface

⑤ AC Power Connector

- . AC 110/220V 50 ~ 60Hz

⑥ Power Switch

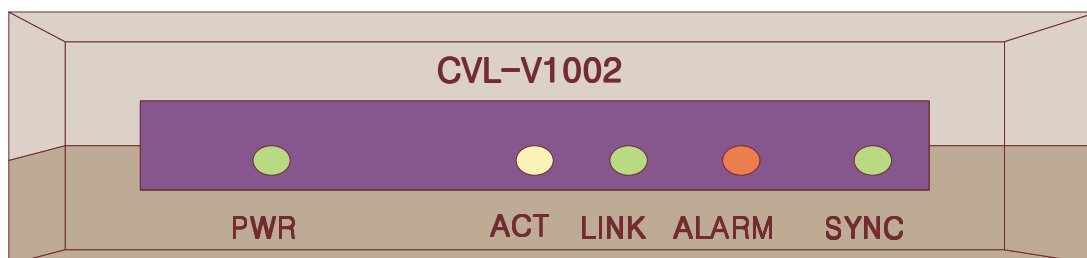
- . Power ON/OFF switch

⑦ Ground

- . Ground should be done at the time of installation.

2.2. CVL-V1002 (Bridge Modem)

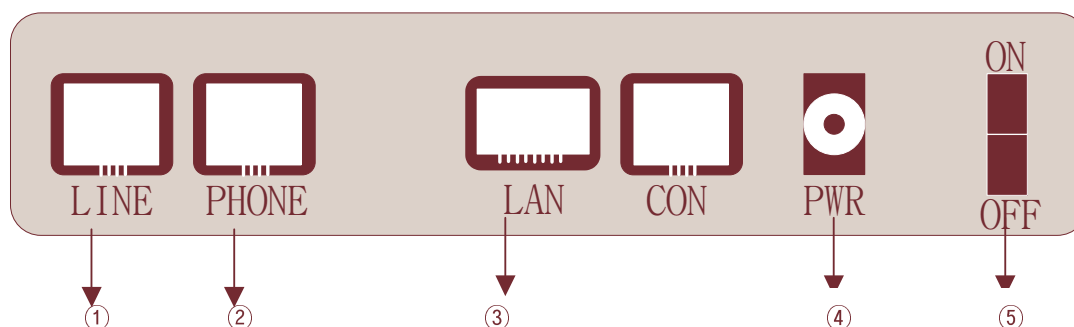
• Front View



► LED Displays

Name	Color	Indication
PWR	GREEN	Turns green when there is a power source available
SYNC	GREEN	Turns green indicating DSL line connection
LINK	GREEN	Turns green indicating LAN signal connection
ACT	YELLOW	Flashes yellow during Ethernet data transmission
ALM	RED	Turns red indicating DSL line error or initialization setup failure

• Rear View

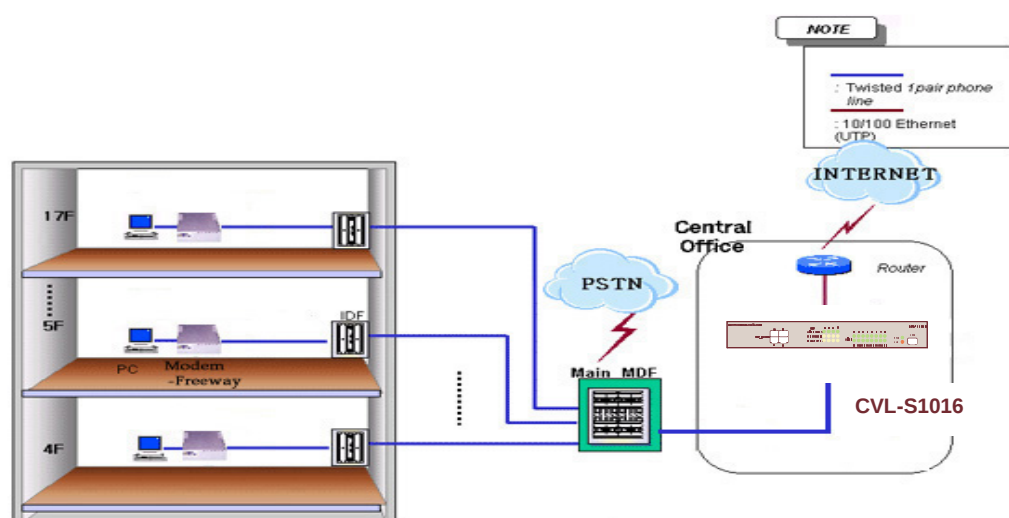


- ① VDSL Interface : Connection with VDSL MDF(wall jack). RJ-11 Interface
- ② Phone Interface : Connection with Telephone. RJ-11 Interface
- ③ LAN Interface : Connection with PC LAN card. RJ-45 Interface
- ④ DC Power Interface : DC power source with power adaptor provided.
- ⑤ Power Switch : Power ON/OFF switch

 **Remarks : Console port is not used and deleted.**

3. Network Interface Configuration

- Standard 10Mbps Ethernet and twisted pair copper wire



4. Serial and Telnet Management

You can use Telnet to connect to CVL-S1016 over the LAN or use a terminal program over a serial connection. In either case, the screens and commands would be the same.

4.1 Connection

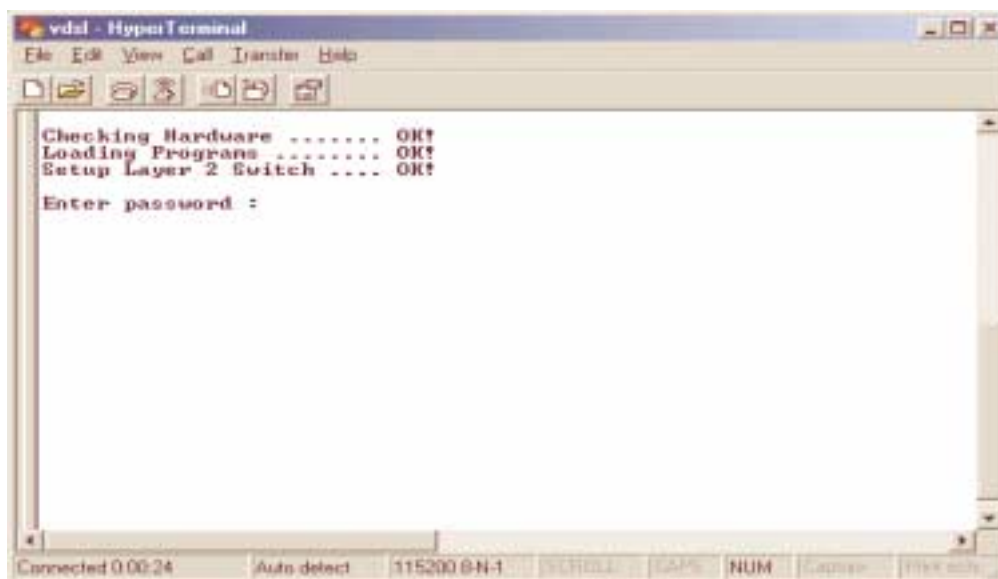
- Setup Serial Connection(Console)
- Local serial console port setup are ;
 - . Using communication emulator(Hyper Terminal)
 - . Emulation : vt100
 - . Bits per second : 115200 bps
 - . Data Bits : 8 bit
 - . Parity : None
 - . Stop Bits : 1
 - . Flow Control : None



<Fig. 1> Connection configuration Menu



<Fig. 2> Connection configuration Menu

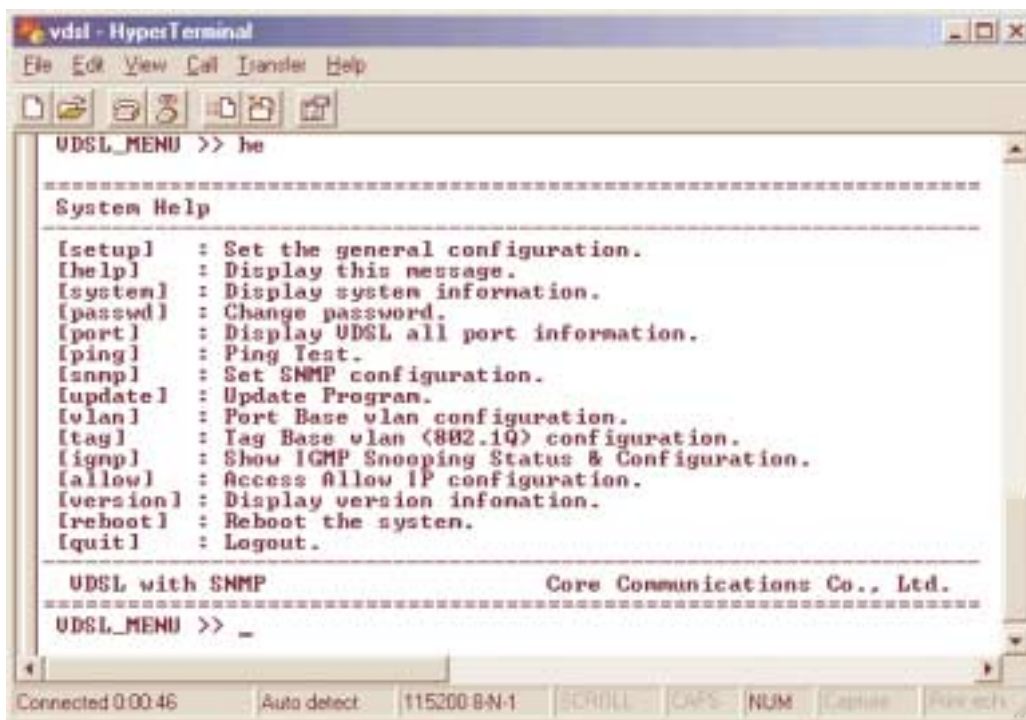


<Fig. 3> Connection configuration Menu

☞ Factory Default Password : cvl-s1016

4.2 Help

- Explain commands using VDSL Management



```
vdsl - HyperTerminal
File Edit View Call Transfer Help

UDSL_MENU >> he

=====
System Help
=====
[setup]   : Set the general configuration.
[help]    : Display this message.
[system]  : Display system information.
[passwd]  : Change password.
[port]    : Display UDSL all port information.
[ping]    : Ping Test.
[snmp]    : Set SNMP configuration.
[update]  : Update Program.
[vlan]    : Port Base vlan configuration.
[tag]     : Tag Base vlan (802.1Q) configuration.
[igmp]    : Show IGMP Snooping Status & Configuration.
[allow]   : Access Allow IP configuration.
[version] : Display version information.
[reboot]  : Reboot the system.
[quit]    : Logout.

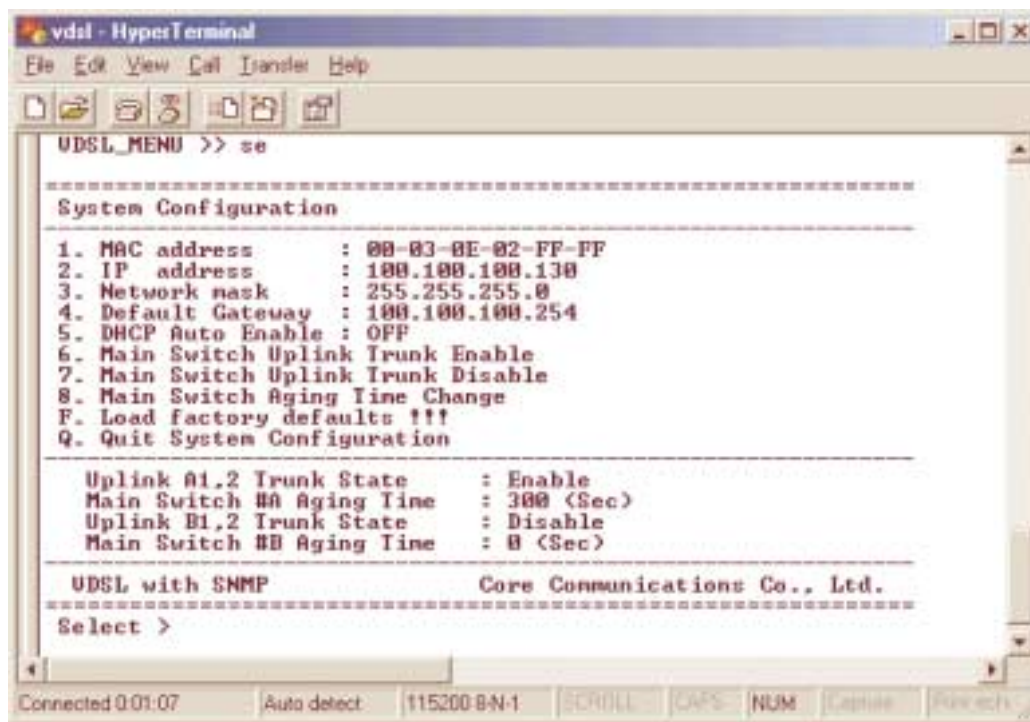
=====
UDSL with SNMP                               Core Communications Co., Ltd.
=====
UDSL_MENU >> _

Connected 0:00:46   Auto detect   115200 8-N-1   SCRILL   CAPS   NUM   Capture   Forward
```

<Fig 4> HELP Menu

4.3 Setup

- Setup configuration for system management



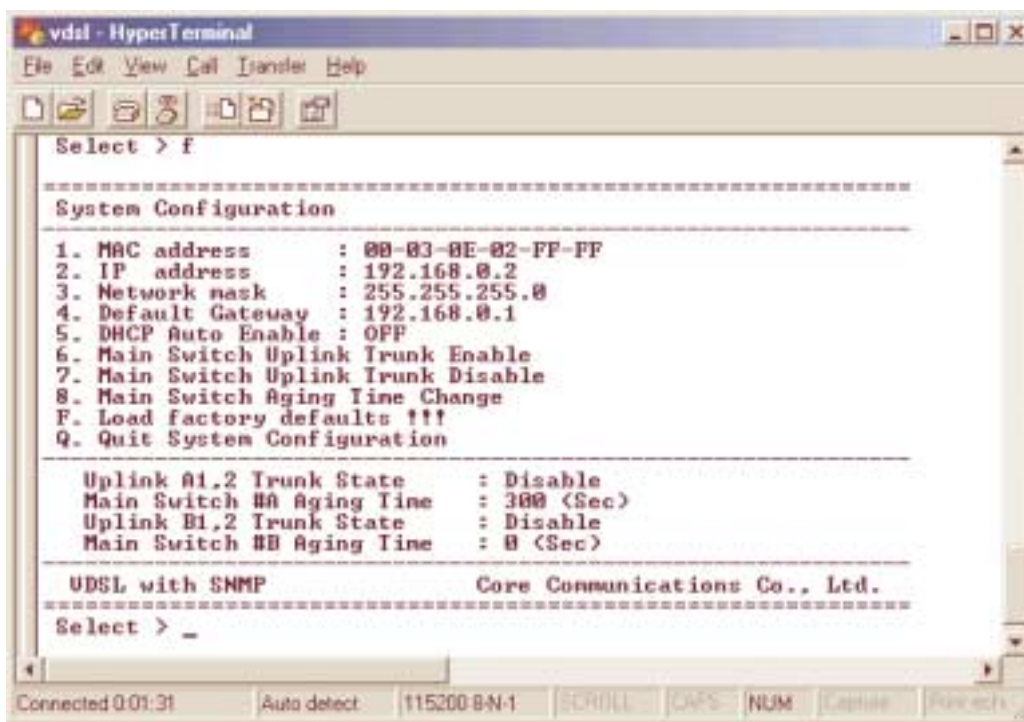
<Fig 5> SETUP Menu

- | | |
|---------------------|---|
| 1. MAC Address | : MAC Address (Read only) |
| 2. IP Address | : IP Address setting |
| 3. Network Mask | : Network Mask setting |
| 4. Default Gateway | : Default Gateway setting |
| 5. DHCP Auto Enable | : Select receipt of IP Address from DHCP server |

 **Remarks :** MAC address is factory default setting and cannot be changed. New settings for IP address, Network mask, Default gateway is applicable after system reboot.

4.3.1 SETUP -> F

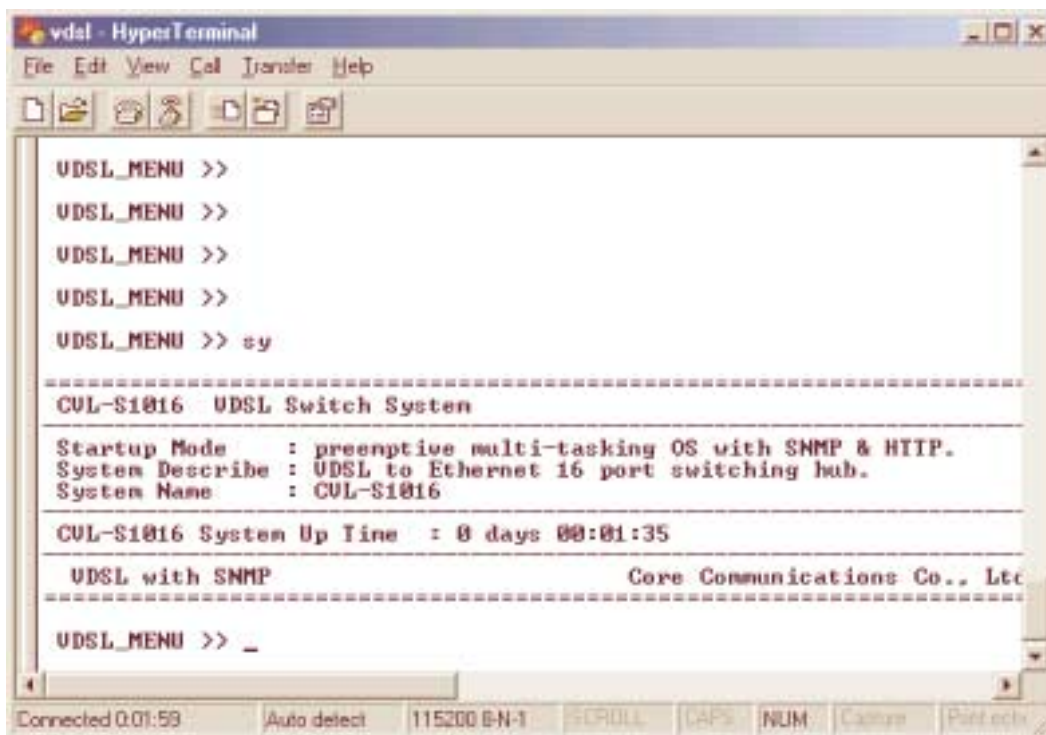
- Set all parameters back to factory default setting and factory default setting can be changed with Super password only.



<Fig 6> Factory Menu

4.4 SYSTEM

- Displays system specification

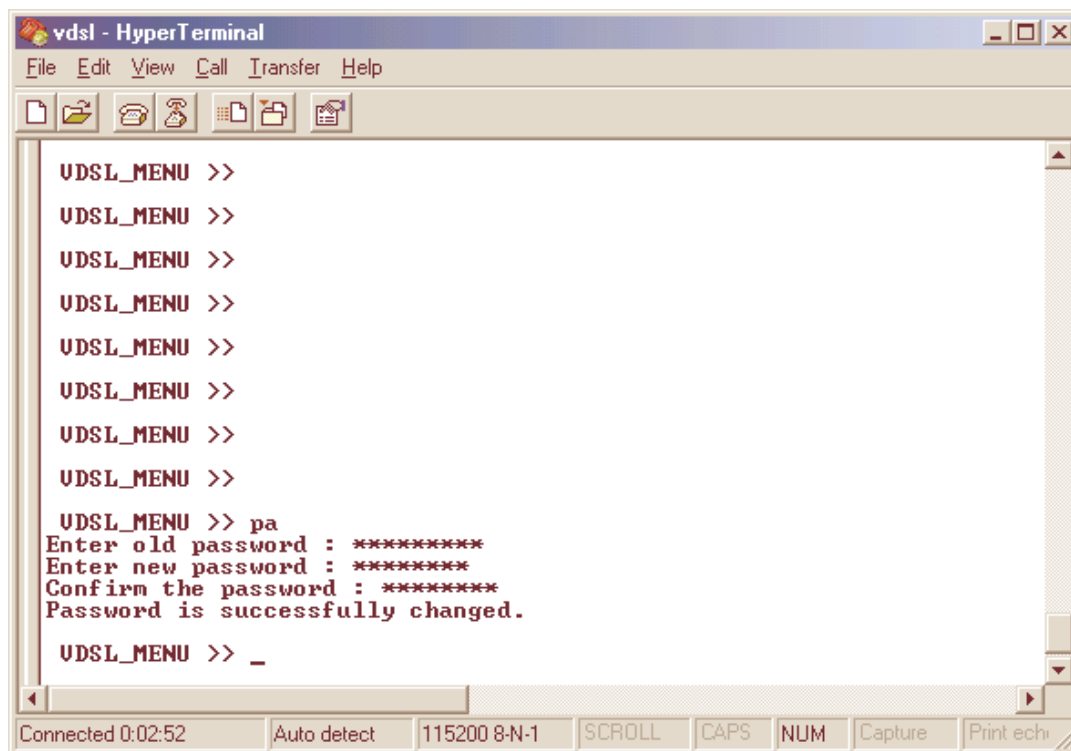


<Fig 7> SYSTEM Menu

- Startup Mode : Displays System Management O/S
- System Describe : Displays VDSL DSLAM
- System Name

4.5 PASSWORD

■ Change Password

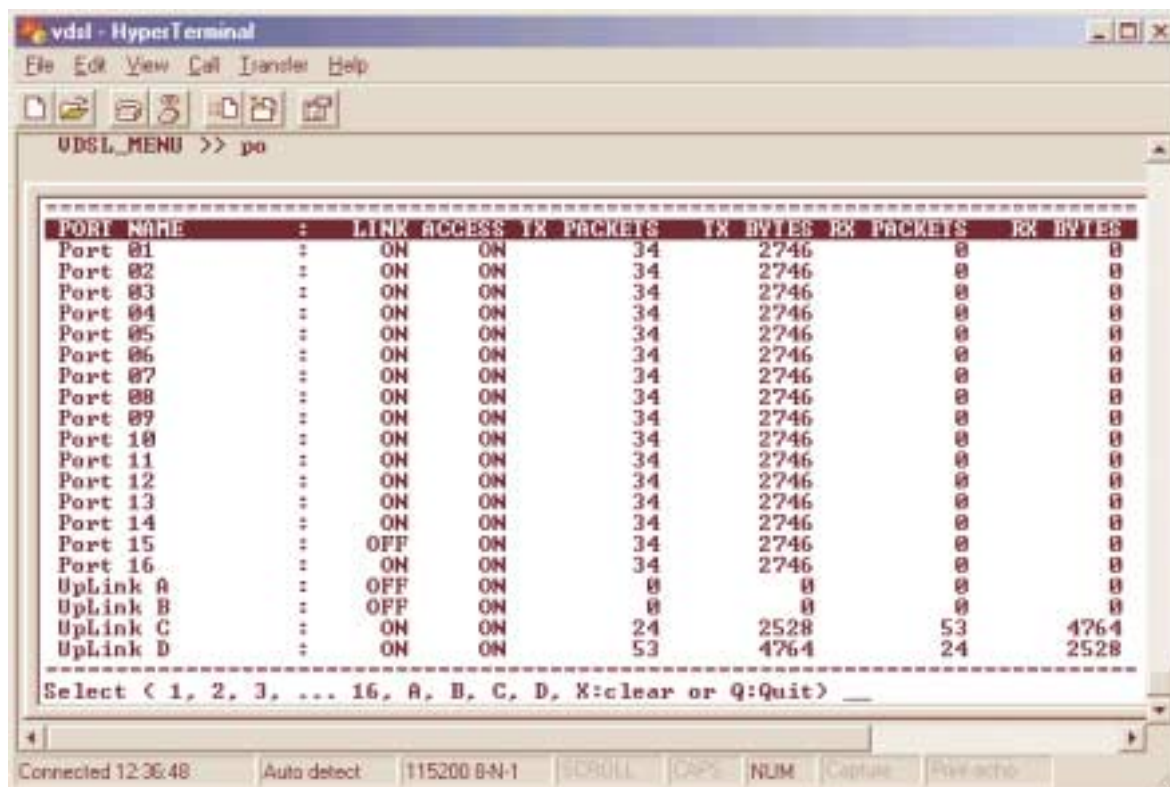


<Fig 8> PASSWORD Menu

☞ Factory Default Password : cvl-s1016

4.6 PORT

- Displays and changes all information of each port



PORT NAME	LINK	ACCESS	TX PACKETS	TX BYTES	RX PACKETS	RX BYTES
Port 01	ON	ON	34	2746	0	0
Port 02	ON	ON	34	2746	0	0
Port 03	ON	ON	34	2746	0	0
Port 04	ON	ON	34	2746	0	0
Port 05	ON	ON	34	2746	0	0
Port 06	ON	ON	34	2746	0	0
Port 07	ON	ON	34	2746	0	0
Port 08	ON	ON	34	2746	0	0
Port 09	ON	ON	34	2746	0	0
Port 10	ON	ON	34	2746	0	0
Port 11	ON	ON	34	2746	0	0
Port 12	ON	ON	34	2746	0	0
Port 13	ON	ON	34	2746	0	0
Port 14	ON	ON	34	2746	0	0
Port 15	OFF	ON	34	2746	0	0
Port 16	ON	ON	34	2746	0	0
Uplink A	OFF	ON	0	0	0	0
Uplink B	OFF	ON	0	0	0	0
Uplink C	ON	ON	24	2528	53	4764
Uplink D	ON	ON	53	4764	24	2528

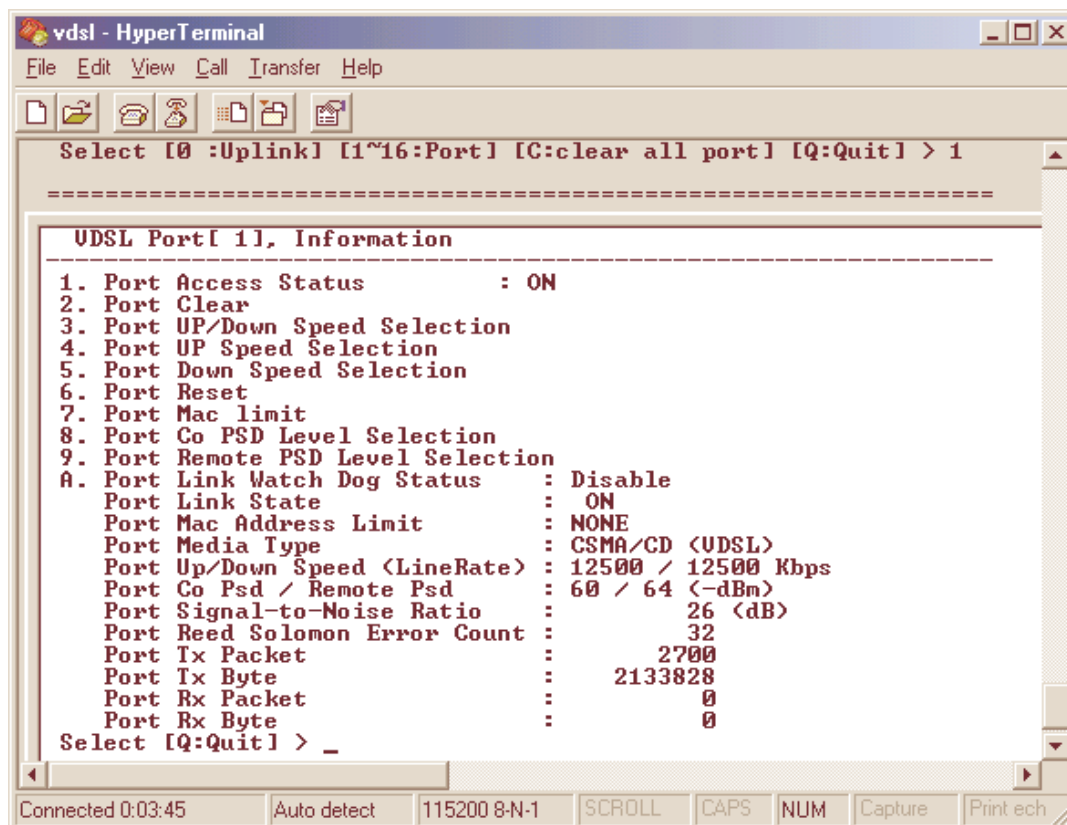
Select (1, 2, 3, ... 16, A, B, C, D, X:clear or Q:Quit)

<Fig 9> PORT Menu

- | | |
|-------------------------|---|
| 1. Port / LINK | : Port Link status (on/off/none) |
| 2. Port / ACCESS | : Port access authorization status (on/off) |
| 3. Port / TX Packet | : TX Packet Count |
| 4. Port / TX Byte | : TX Byte Count |
| 5. Port / RX Packet | : RX Packet Count |
| 6. Port / RX Byte | : RX Byte Count |
| 7. Up-link / Link | : Up-link Port Link status (on/off) |
| 8. Up-link / Tx Packet | : Up-link Port TX Packet Count |
| 9. Up-link / Tx Byte | : Up-link Port TX Byte Count |
| 10. Up-link / Rx Packet | : Up-link Port RX Packet Count |
| 11. Up-link / Rx Byte | : Up-link Port RX Byte Count |
| X | : Clear TX/RX Packets/Bytes count in all ports. |

4.6.1 PORT -> [selected port]

- Displays and changes all information of selected port

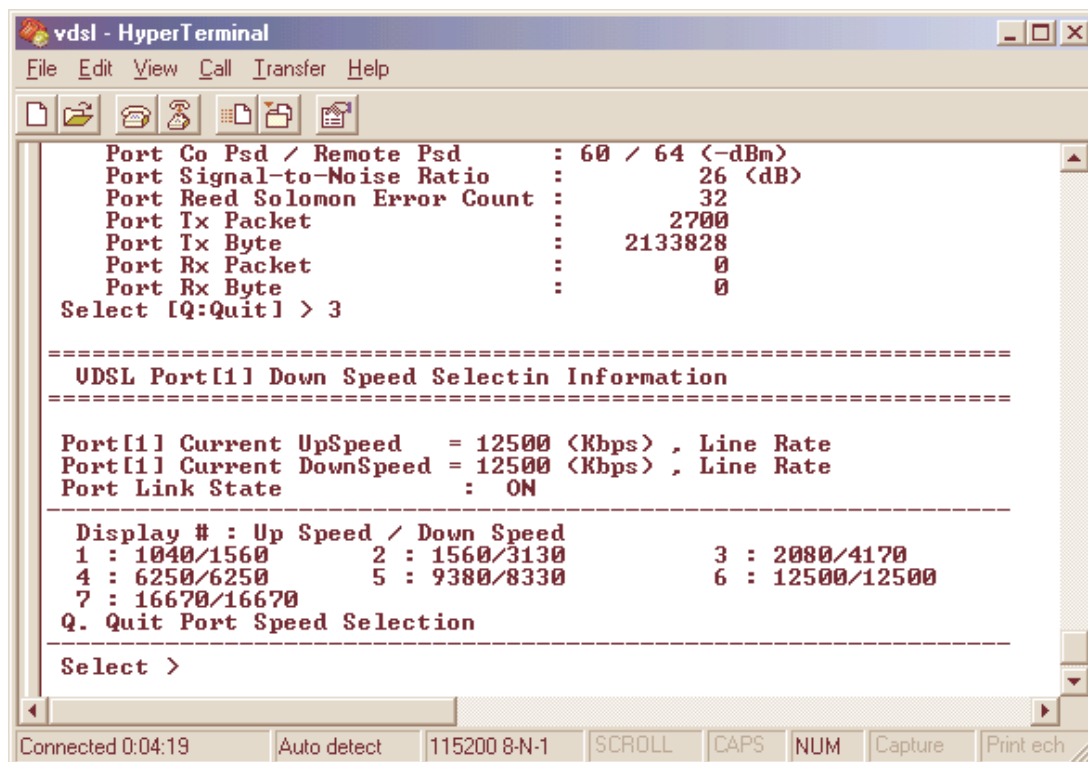


<Fig 10> PORT Sub Menu Menu

- | | |
|------------------------------------|--|
| 1. Access Status | : Port access authorization status (on/off) |
| 2. Clear | : Clear TX/RX Packets/Bytes count |
| 3. UP/Down Speed Selection | : UP/Down Speed change (simultaneous) |
| 4. UP Speed Selection | : Upload Speed change |
| 5. Down Speed Selection | : Download Speed change |
| 6. Reset | : Reboot a port |
| 7. Port Mac limit | : Selected Port's Mac limit (1~4,none - unlimited) |
| 8. Port CO PSD Level Selection | : DSLAM side Max PSD Level change |
| 9. Port Remote PSD Level Selection | : CPE side Max PSD Level change |
| A. Port Link Watch Dog Status | : Selected Port's Link Watch Dog (Enable/Disable) |

4.6.1.1 PORT -> [selected port] -> UP/Down Speed Selection

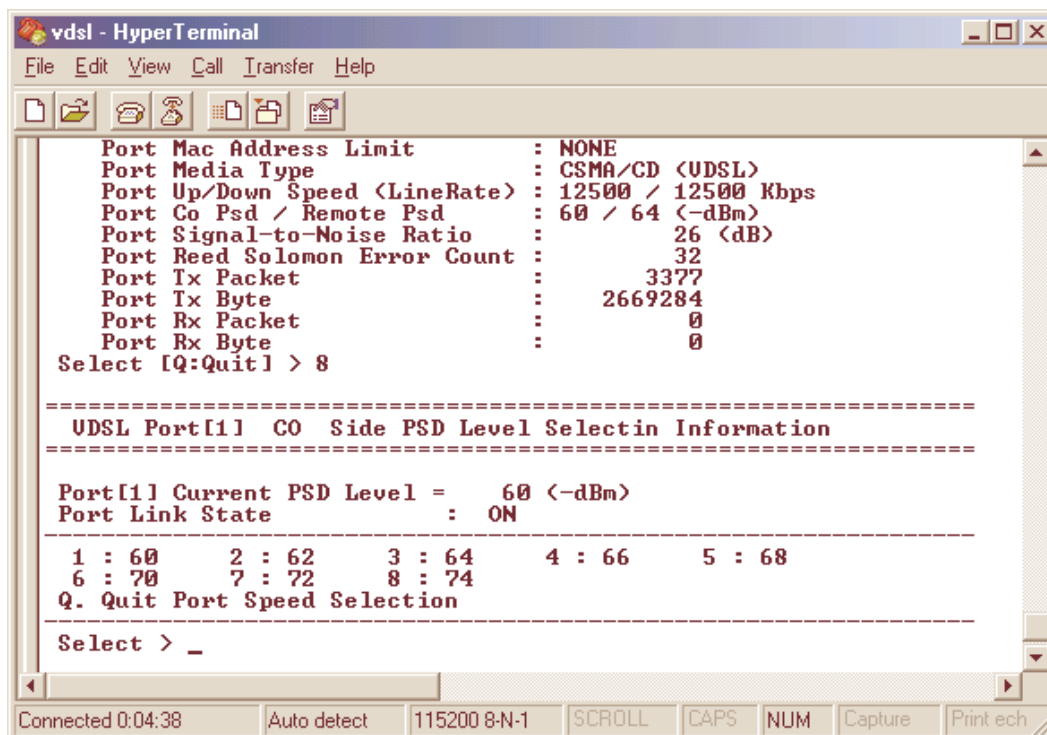
- Displays and changes up/download speed(simultaneously) of selected port



<Fig 11> PORT Speed Selection Menu

4.6.1.2 PORT -> [selected port] -> CO PSD Level Selection

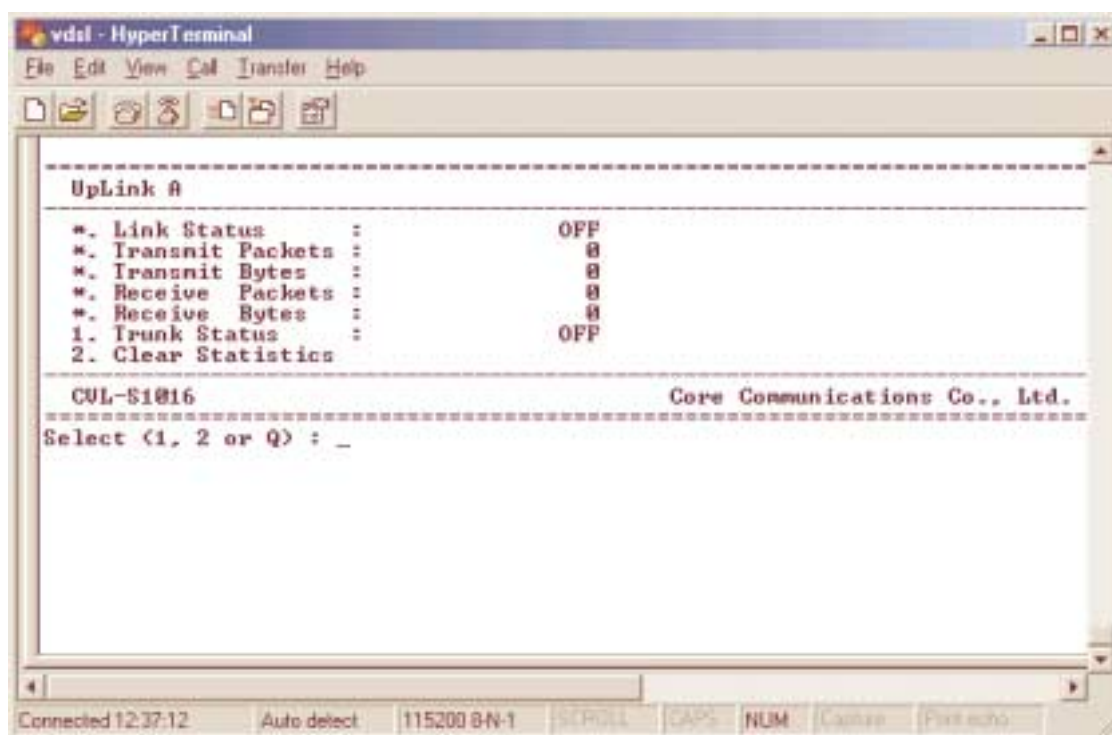
- Displays and changes DSLAM side Max. Level of selected port



<Fig 12> PORT CO PSD Level Selection Menu

4.6.2 PORT -> A

- Displays Up-link information

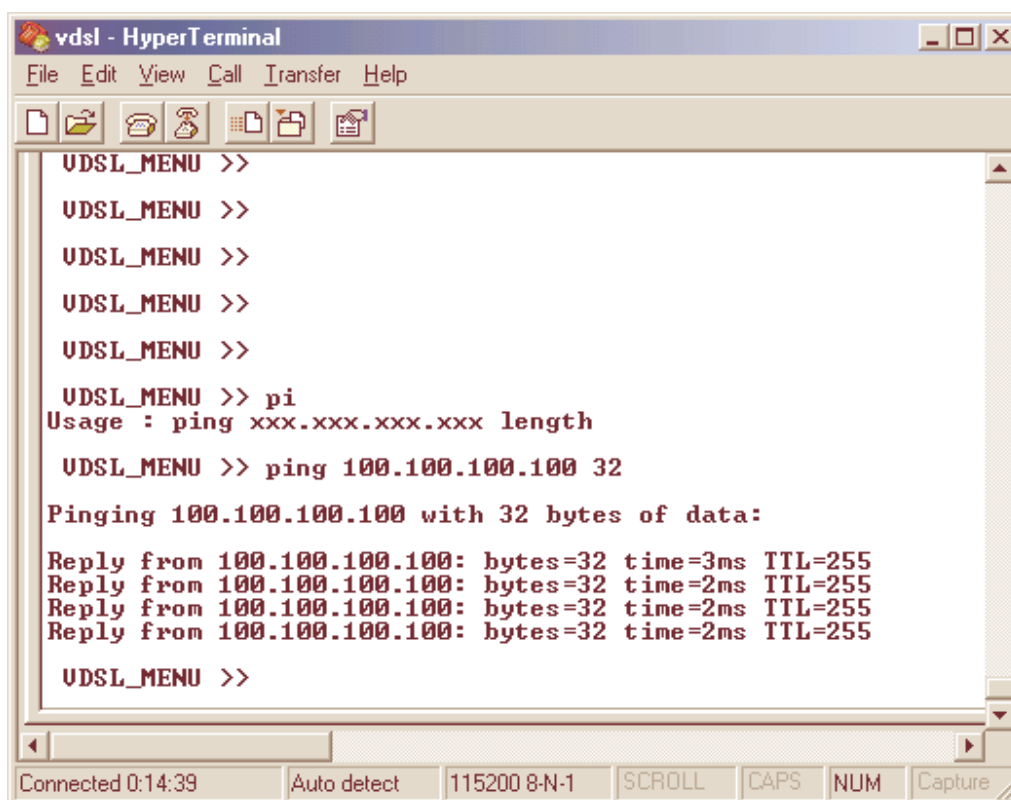


<Fig 13> UP-LINK Port Information Menu

- | | |
|---------------------|--|
| 1. Trunk Status | : Activation of trunk function of Up-link A and B (ON/OFF) |
| 2. Clear Statistics | : Clear Up-link TX/RX Packets/Bytes count |

4.7 PING

- Confirm the connection between SNMP Board and specific IP Address
- Input : ping xxx.xxx.xxx.xxx [length] (specific IP)



```
vds1 - HyperTerminal
File Edit View Call Transfer Help

VDSL_MENU >>
VDSL_MENU >>
VDSL_MENU >>
VDSL_MENU >>
VDSL_MENU >>
VDSL_MENU >> pi
Usage : ping xxx.xxx.xxx.xxx length
VDSL_MENU >> ping 100.100.100.100 32

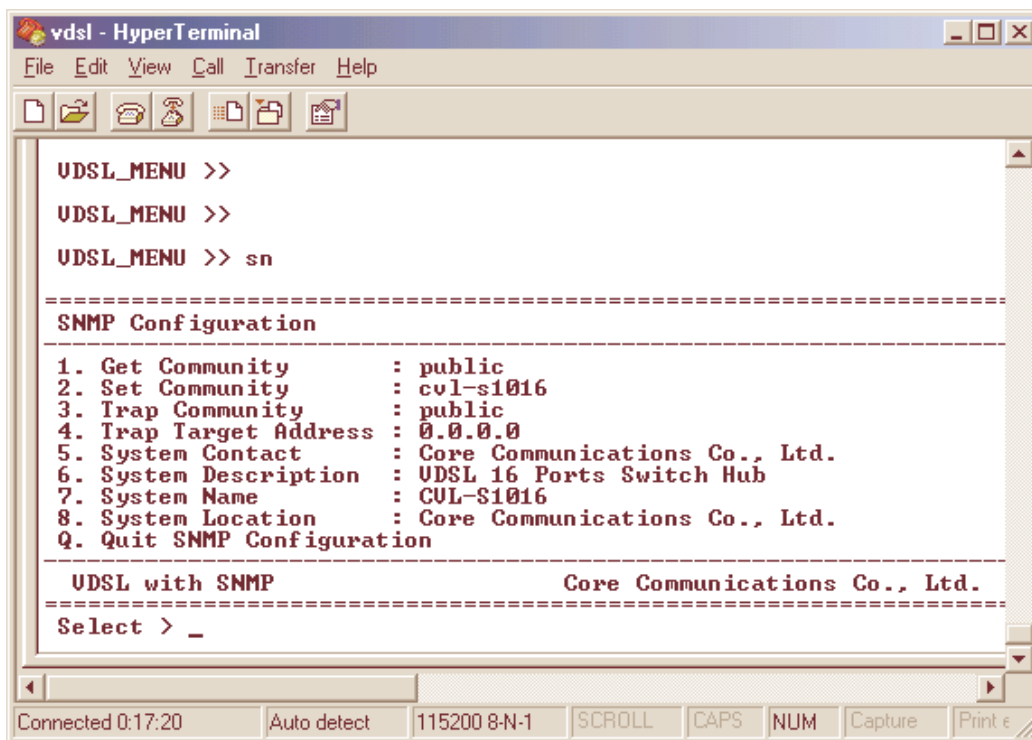
Pinging 100.100.100.100 with 32 bytes of data:
Reply from 100.100.100.100: bytes=32 time=3ms TTL=255
Reply from 100.100.100.100: bytes=32 time=2ms TTL=255
Reply from 100.100.100.100: bytes=32 time=2ms TTL=255
Reply from 100.100.100.100: bytes=32 time=2ms TTL=255
VDSL_MENU >>

Connected 0:14:39 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture
```

<Fig 14> PING Menu

4.8 SNMP

- Displays and Setup SNMP(Simple Network Management Protocol) parameters



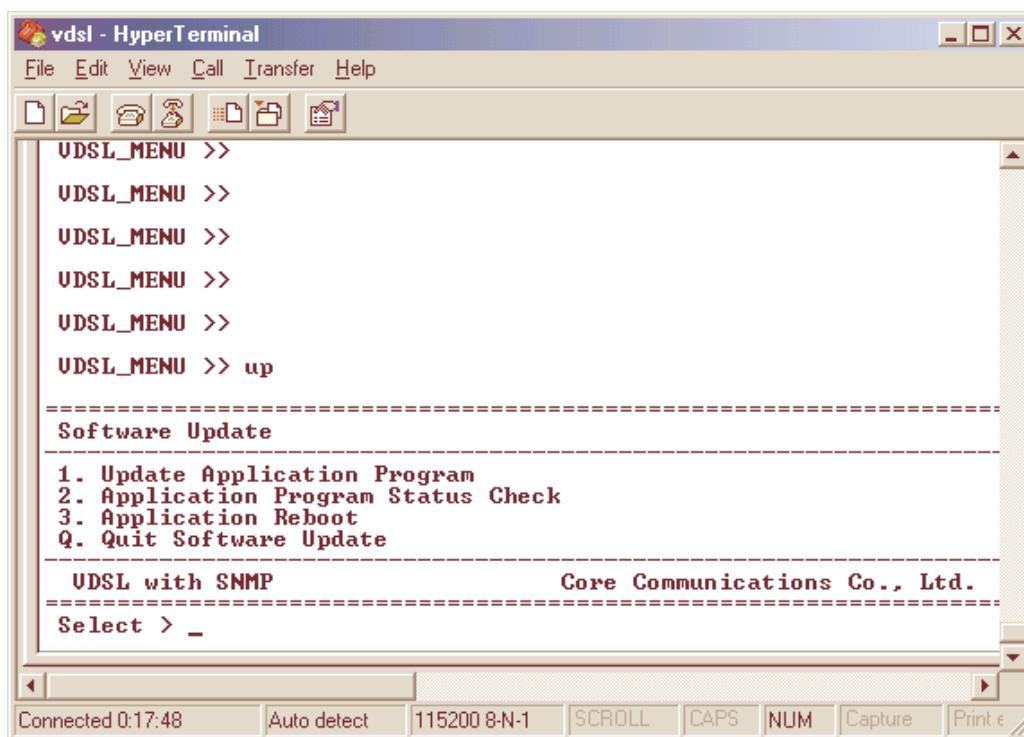
<Fig 15> SNMP Menu

1. Get community
2. Set community
3. Trap community
4. Trap Target Address : IP address of PC with SNMP management
5. System contact
6. System description
7. System name
8. System location

☞ Remarks : New changes are applicable just after change.

4.9 UPDATE

- Displays and Setup UPDATE



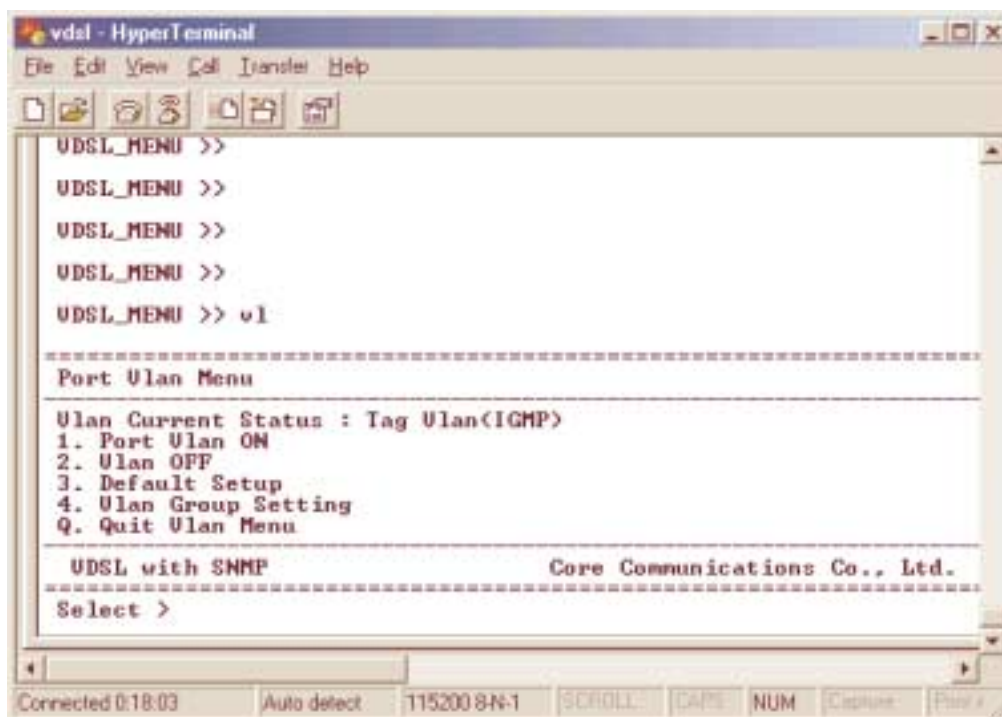
<Fig 16> UPDATE Menu

- | | |
|-------------------------------------|---------------------------------------|
| 1. Update Application Program | : Execute Xmodem for Program Update |
| 2. Application Program Status Check | : Flash Memory Program Check |
| 3. Application Reboot | : Program reboot after Program Update |

4.10 VLAN (Virtual LAN)

- Turns on / off VLAN function

☞ Remarks : VLAN prevents performance drop caused from over broadcast traffic and enhance security.

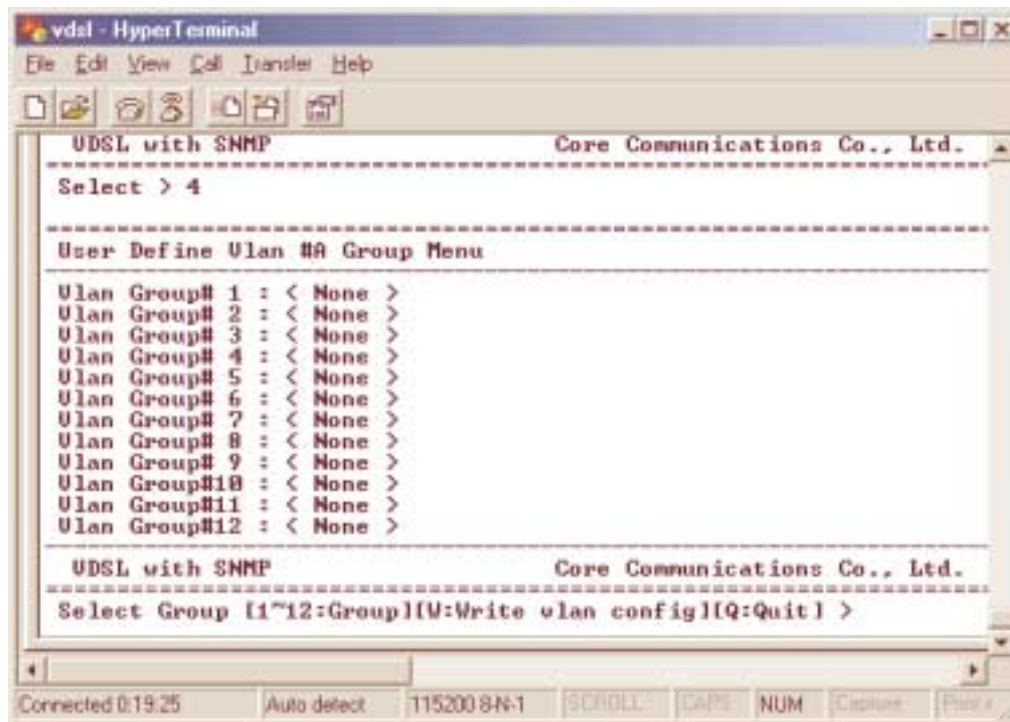


<Fig 17> VLAN Menu

- | | |
|-----------------------|--|
| 1. Port Vlan ON Vlan | : Set Vlan ON |
| 2. Vlan OFF | : Set Vlan OFF |
| 3. Default Setup | : Back to VLAN factory default setting (Port Base Vlan ON) |
| 4. Vlan Group setting | : Setup Vlan Group |

4.10.1 VLAN -> VLAN GROUP

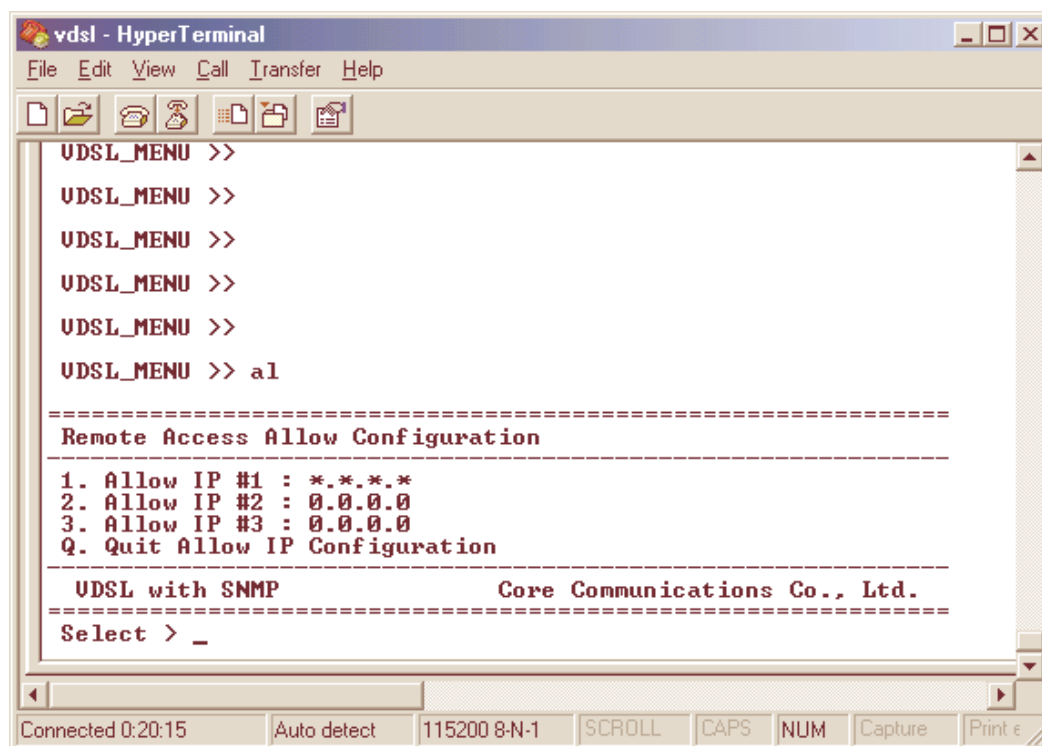
- Setup VLAN GROUP



<Fig 18> VLAN GROUP Menu

4.11 ALLOW

- Setup remote accessible IP address



<Fig 19> ALLOW Menu

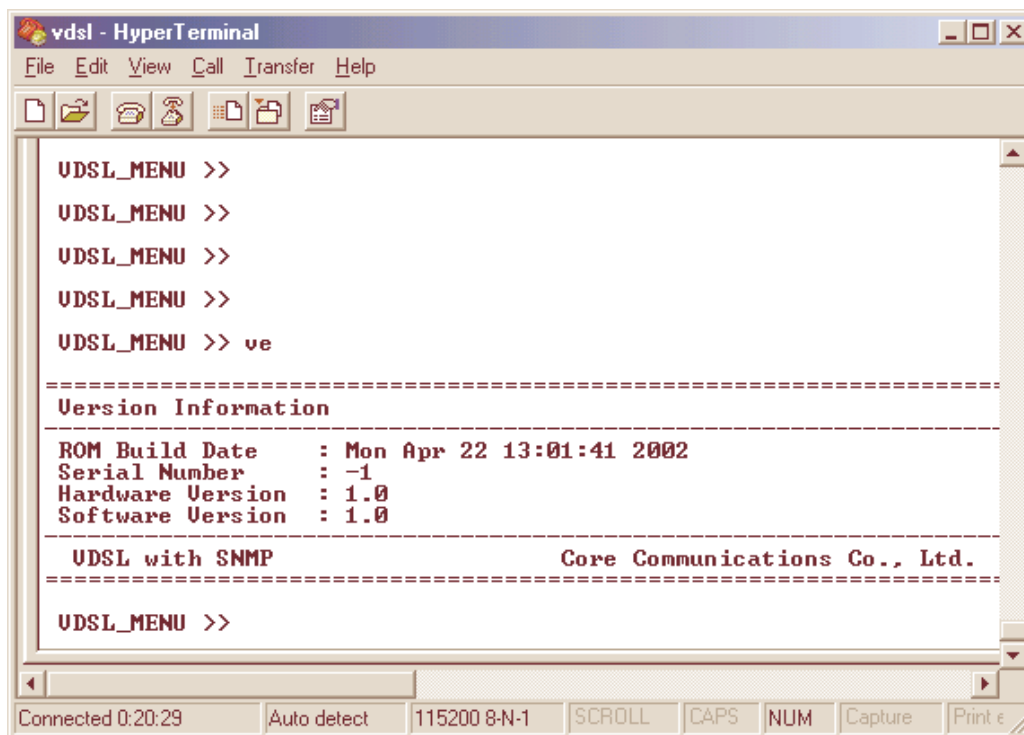
- ☐ Allow IP #1 : Remote Accessible IP setting. First area
- ☐ Allow IP #2 : Remote Accessible IP setting. Second area
- ☐ Allow IP #3 : Remote Accessible IP setting. Third area.

- ☞ Ex. 1) Allow IP #1 : *.*.* → All IP addresses are allowed for remote access
- Ex. 2) Allow IP #1 : 10.10.10.* → 10.10.10.1~255 are allowed for remote access
- Ex. 3) Allow IP #2 : 233.212.100.34 → Only 233.212.100.34 are allowed for remote access

☞ Remarks : Upto 3 IP addresses are allowed for remote access. In case of “ * ” in certain area, all IP addresses are allowed for remote access.

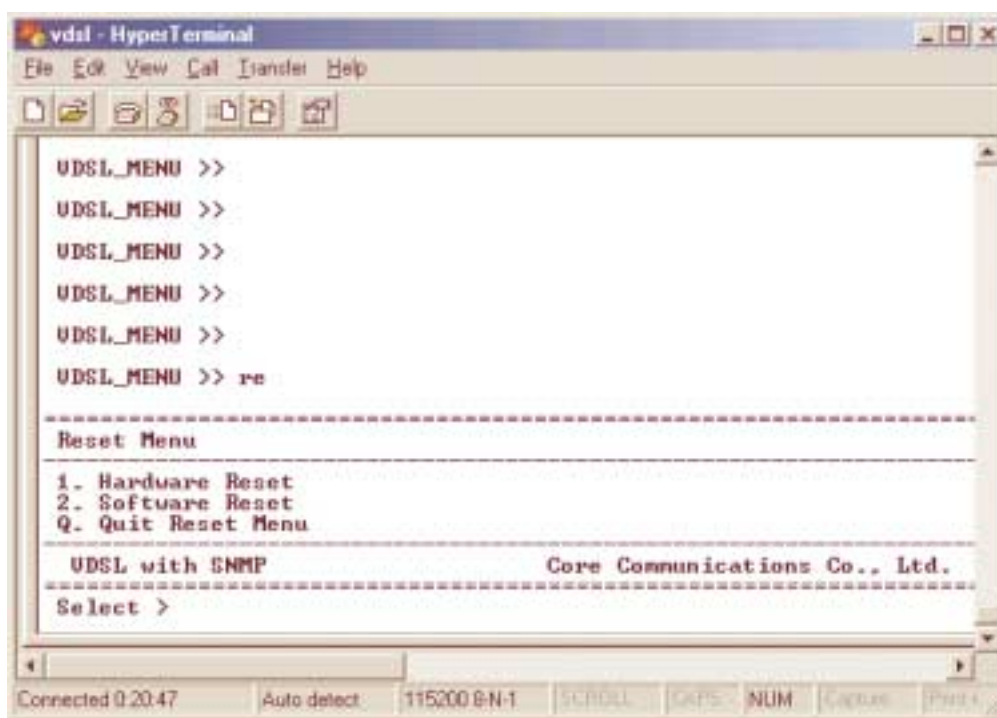
4.12 VERSION

- Displays release information of systems, serial, S/W and H/W version



<Fig 20> Version Information Menu

4.13 REBOOT

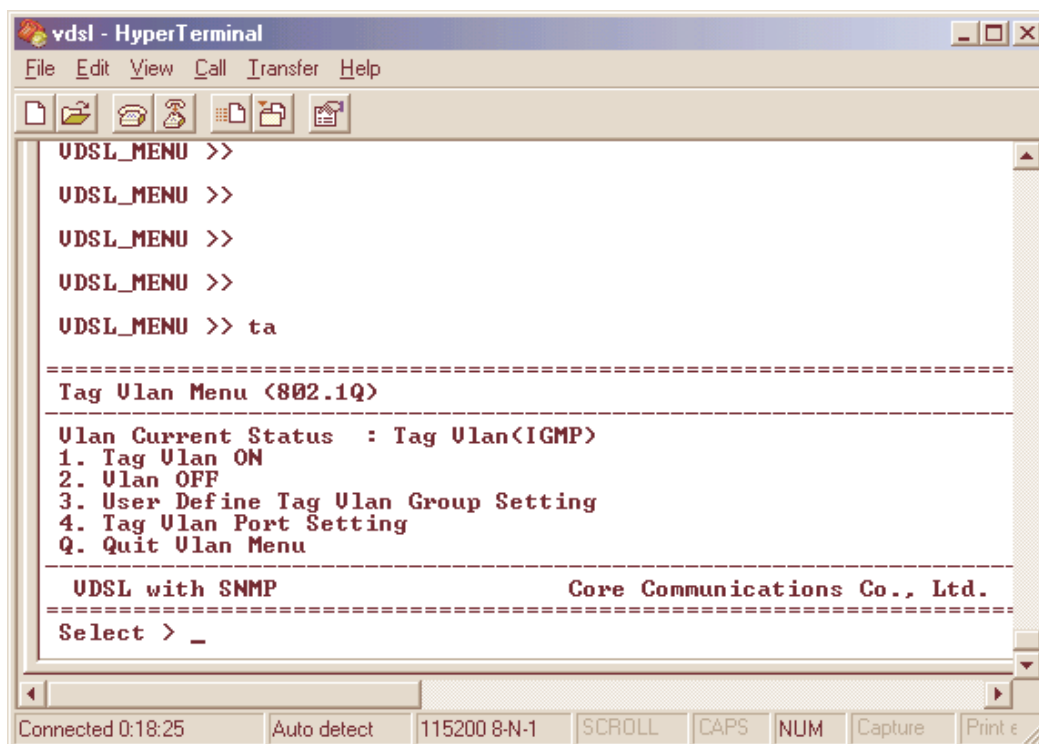


<Fig 21> REBOOT (H/W, S/W) Menu

1. Hardware Reset : Reboot all hardware, reboot program and ready for password input.
2. Software Reset : Reboot CPU only . Reload program and ready for password input.

4.14 TAG

■ Setup Tagged VLAN



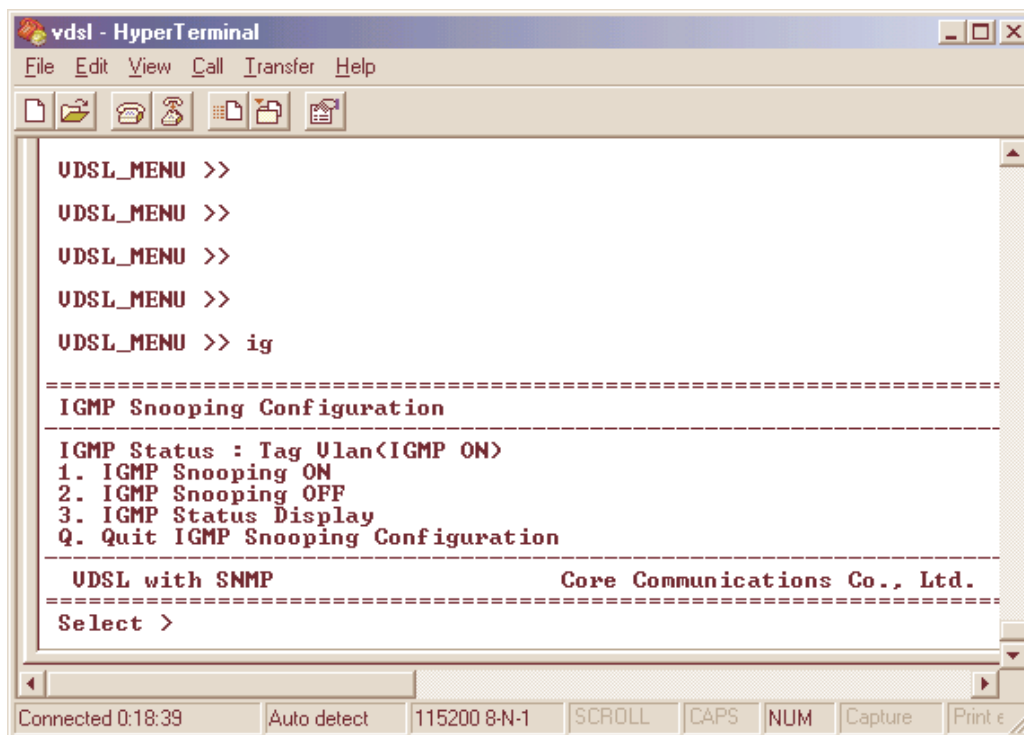
<Fig 22> Tagged Menu

1. Tag Vlan ON : Set Tag Vlan on
2. Vlan OFF : Set Vlan off
3. User Define Tag Vlan Group Setting : Set Tag Vlan Group
4. Tag Vlan Port Setting : Set Tag Vlan Port

 An individual port for Tagged VLAN should be "VLAN : ON". (see 4.10)

4.15 IGMP

- Setup IGMP SNOOPING function

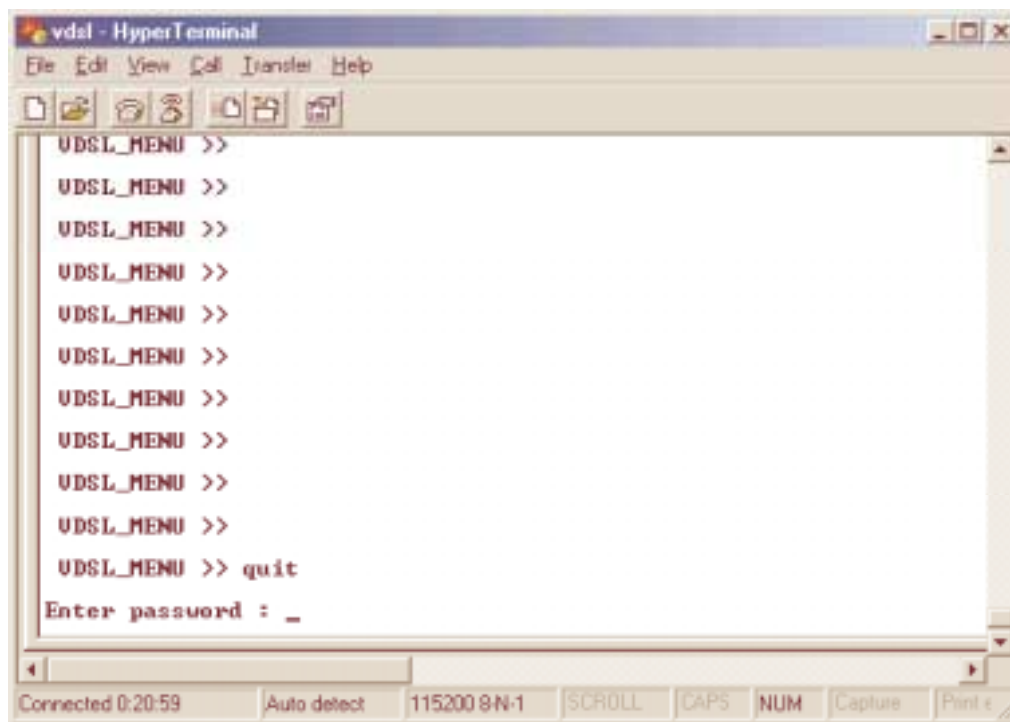


<Fig 23> IGMP Menu

- 1. IGMP Snooping ON : Set IGMP Snooping function on
- 2. IGMP Snooping OFF : Set IGMP Snooping function off
- 3. IGMP Status Display : Display IGMP status

4.16 QUIT

- Log out from VDSL Management Menu



<Fig 24> QUIT Menu

5. Web based Management

5.1 Main Menu



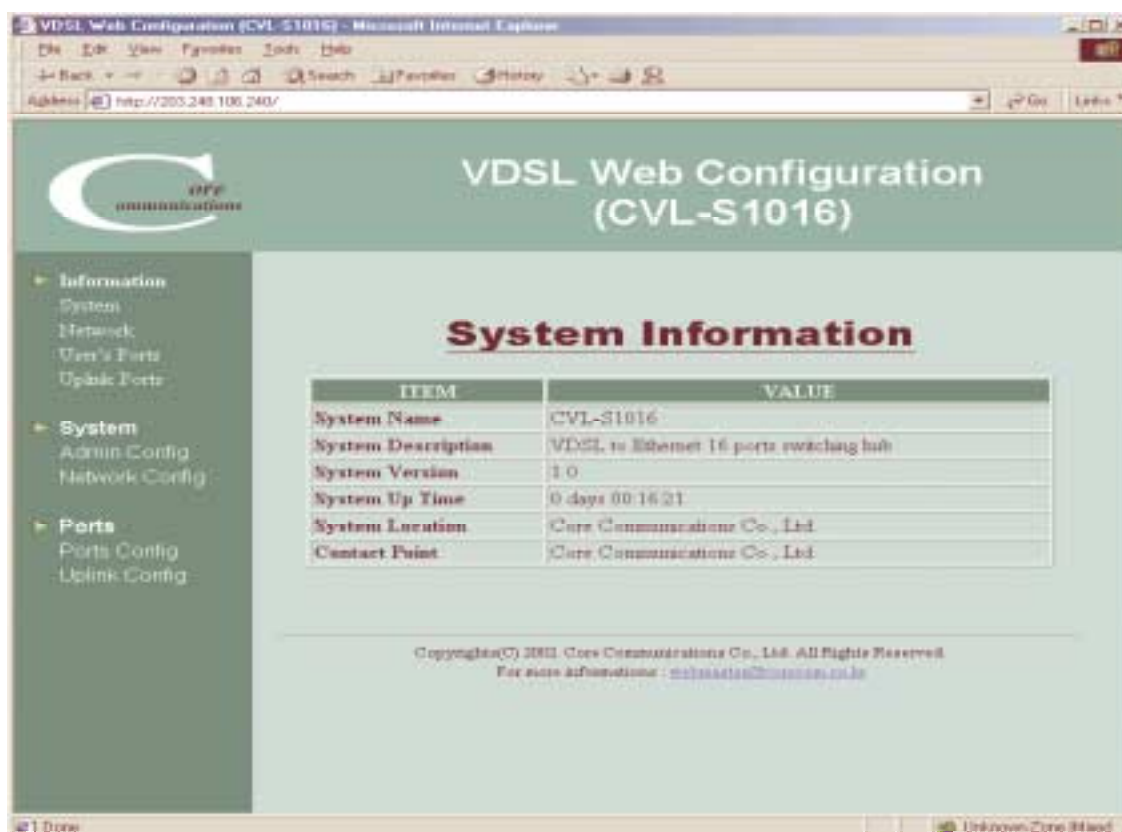
< Fig 25. Main Menu >

Displays all parameters for web based management of CVL-V1016.

- Information
 - System : Menu for System information
 - Network : Menu for Network information for the management of CVL-S1016
 - User's Ports : Menu for User's port information
 - Up-link Ports : Menu for Up-link port information
- System
 - Admin Config : Menu for SNMP setting
 - Network Config: Menu for Network setting
- Ports
 - Ports Config : Menu for User port setting
 - Up-link Config : Menu for Up-link port setting

5.2 Information

5.2.1 System

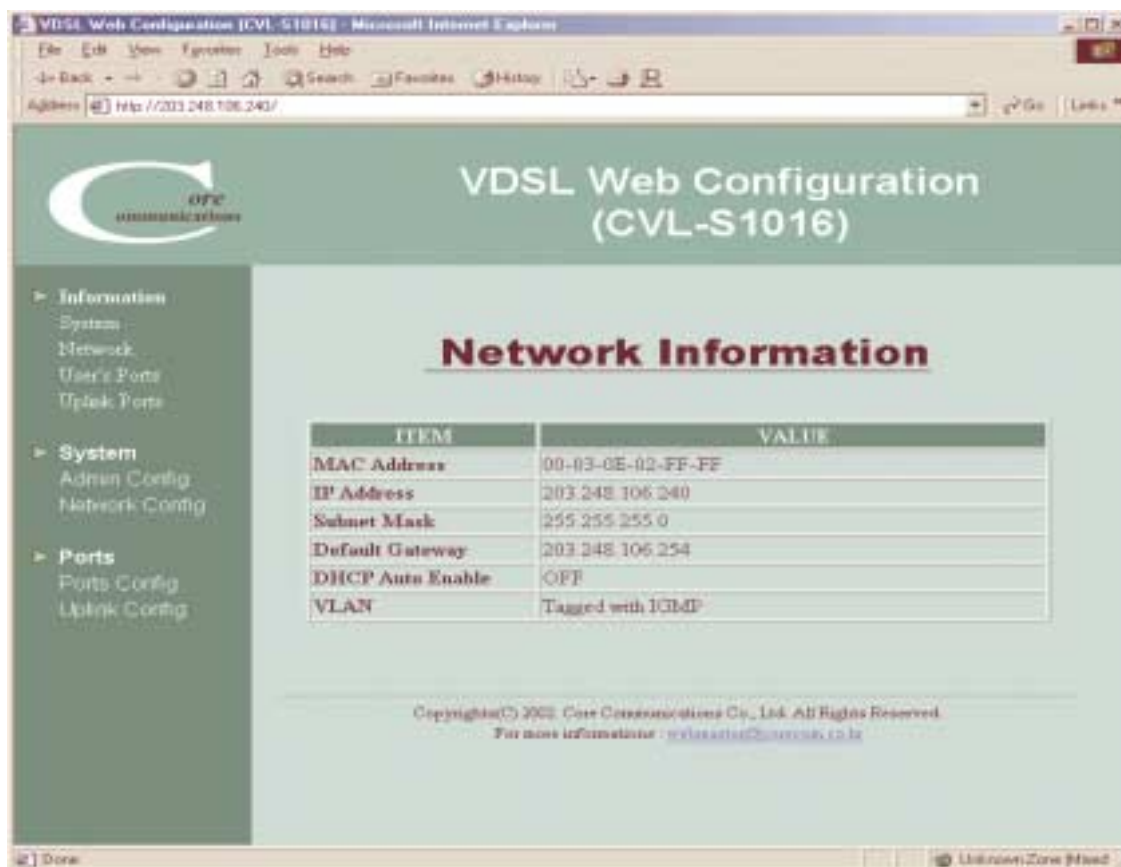


< Fig. 26 System Information >

Displays the following information ;

- System Name
- System Description
- System Version
- System Up Time : System running time
- System Location
- Contact Point

5.2.2 Network

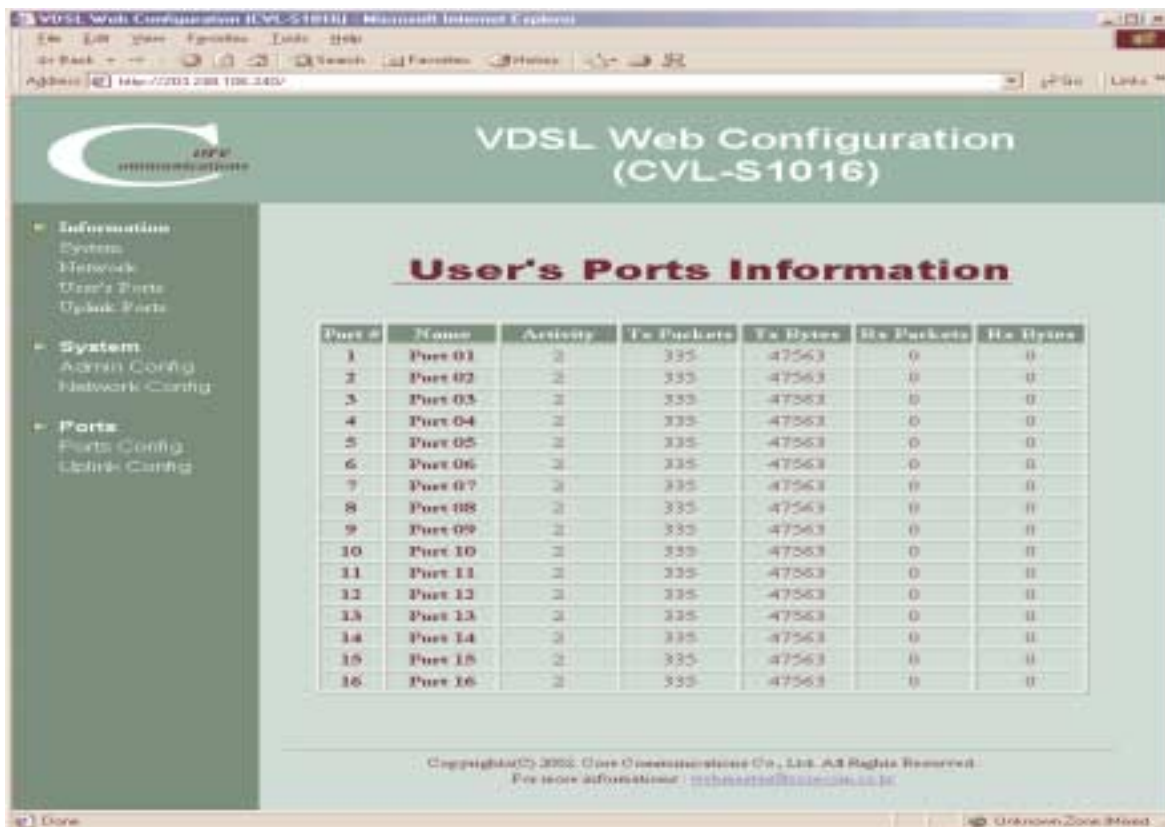


< Fig 27 Network Information >

Displays the following information ;

- MAC Address : MAC Address of CVL-S1016 (Factory default)
- IP Address : IP Address of CVL-S1016
- Subnet Mask : Subnet Mask of CVL-S1016
- Default Gateway : Gateway of CVL-S1016
- DHCP Auto Enable : DHCP Client function setting information of CVL-S1016
- VALN : VLAN function setting information

5.2.3 User's Port



The screenshot shows a web browser window titled "VDSL Web Configuration (CVL-S1016)". The address bar shows "http://203.288.108.240/". The page has a green header with the Core Communications logo and the title "VDSL Web Configuration (CVL-S1016)". A left sidebar contains a menu with "Information" (System, Network, User's Ports, Update Ports), "System" (Admin Config, Network Config), and "Ports" (Ports Config, Uplink Config). The main content area is titled "User's Ports Information" and contains a table with 7 columns: Port #, Name, Activity, Tx Packets, Tx Bytes, Rx Packets, and Rx Bytes. The table lists 16 ports, all with an activity of "2" and 335 Tx Packets/47563 Tx Bytes, and 0 Rx Packets/0 Rx Bytes. At the bottom, a copyright notice for 2002 Core Communications Co., Ltd. is visible.

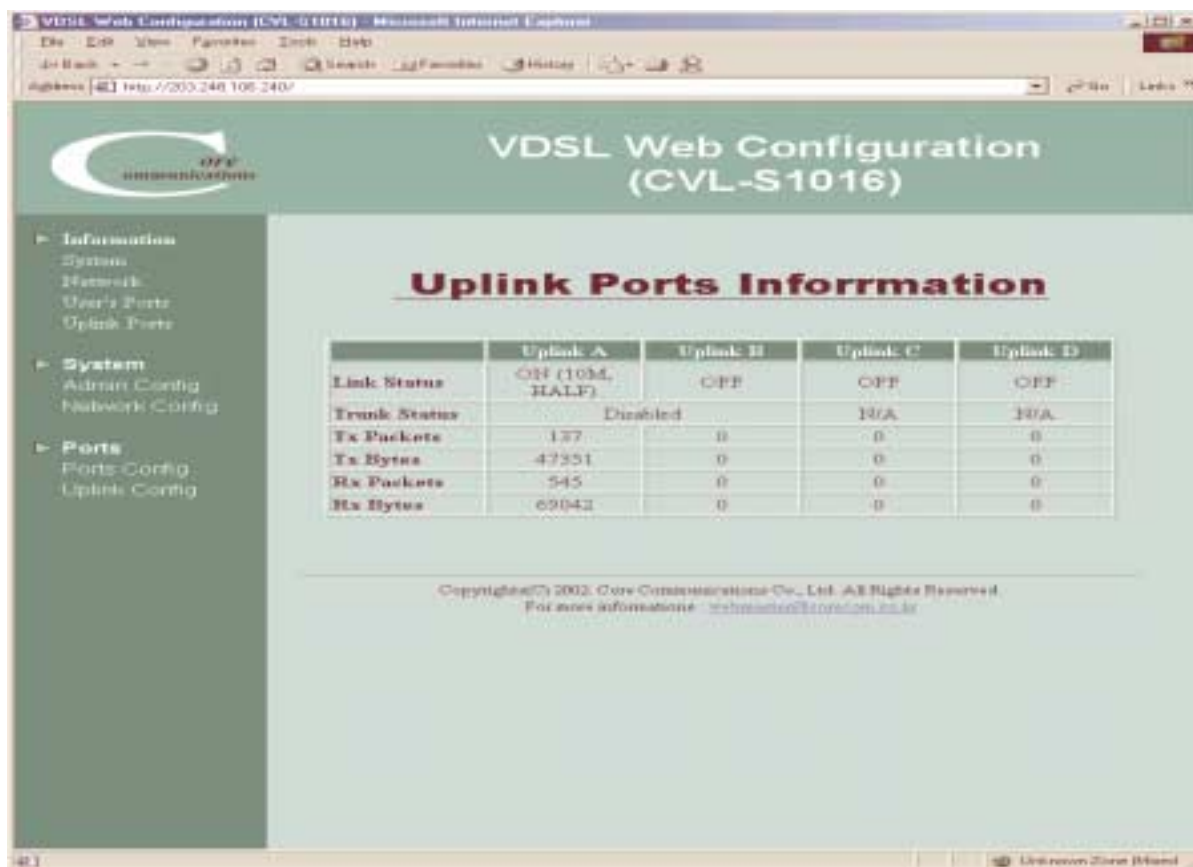
Port #	Name	Activity	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes
1	Port 01	2	335	47563	0	0
2	Port 02	2	335	47563	0	0
3	Port 03	2	335	47563	0	0
4	Port 04	2	335	47563	0	0
5	Port 05	2	335	47563	0	0
6	Port 06	2	335	47563	0	0
7	Port 07	2	335	47563	0	0
8	Port 08	2	335	47563	0	0
9	Port 09	2	335	47563	0	0
10	Port 10	2	335	47563	0	0
11	Port 11	2	335	47563	0	0
12	Port 12	2	335	47563	0	0
13	Port 13	2	335	47563	0	0
14	Port 14	2	335	47563	0	0
15	Port 15	2	335	47563	0	0
16	Port 16	2	335	47563	0	0

< Fig 28 User's Ports Information >

Displays the following information ;

- Name : Port Name
- Activity : Operational information of ports(Disabled, Link, Link Off)
- Tx Packets : Tx Packets Count
- Tx Bytes : Tx Bytes Count
- Rx Packets : Rx Packets Count
- Rx Bytes : Rx Bytes Count

5.2.4 Up-link Ports



< Fig 29 Up-link Ports Information >

Displays the following information ;

- Link Status : Up-link Link status(On/Off and duplex type)
- Trunk Status : Activation of trunk function of Up-link A and B(Enabled/Disabled)
- Tx Packets : Up-link Tx Packets count
- Tx Bytes : Up-link Tx Bytes count
- Rx Packets : Up-link Rx Packets count
- Rx Bytes : Up-link Rx Bytes count

5.3 System

5.3.1 Admin Configuration



ITEM	VALUE
System Name	CVL-S1016
System Description	VDSL to Ethernet 16 ports switching test
System Version	1.0
System Location	Core Communications Co., Ltd
Contact Point	Core Communications Co., Ltd
Password	cs1-s1016
Get Community	public
Set Community	cs1-s1016
Trap Community	cs1-s1016
Trap Target IP Address	0.0.0.0
Allowed IP Address #1	0.0.0.0
Allowed IP Address #2	0.0.0.0
Allowed IP Address #3	0.0.0.0
Reset System	Reset System

Buttons: Cancel, Apply

< Fig 30 Admin Config >

Display and set the following parameters ;

- System Name
- System Description
- System Version
- System Location
- Contact Point
- Password : Factory default password "cs1-s1016"
- Get Community
- Set Community
- Trap Community
- Trap Target IP Address
- Allowed IP Address #1~3
- Reset System : Reboot the system
- Apply : Change and save new setup

5.3.2 Network Configuration



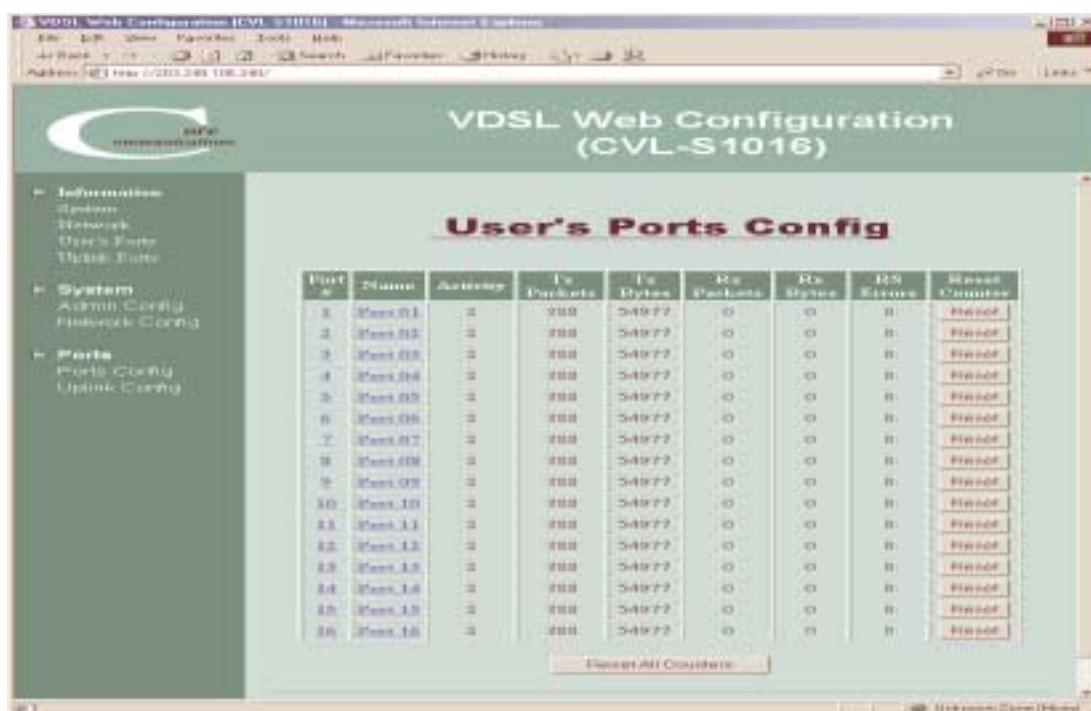
< Fig 31 Network Config >

Display and set the following parameters ;

- MAC Address : Read Only
- IP Address
- Subnet Mask
- Default Gateway
- DHCP Auto Enable
- MAC Aging Time
- VLAN
- Apply : Change and save new setup

5.4 Ports

5.4.1 User's Ports Configuration



Port #	Name	Activity	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	RS Errors	Reset Counter
1	Port 01	0	000	54977	0	0	0	Reset
2	Port 02	0	000	54977	0	0	0	Reset
3	Port 03	0	000	54977	0	0	0	Reset
4	Port 04	0	000	54977	0	0	0	Reset
5	Port 05	0	000	54977	0	0	0	Reset
6	Port 06	0	000	54977	0	0	0	Reset
7	Port 07	0	000	54977	0	0	0	Reset
8	Port 08	0	000	54977	0	0	0	Reset
9	Port 09	0	000	54977	0	0	0	Reset
10	Port 10	0	000	54977	0	0	0	Reset
11	Port 11	0	000	54977	0	0	0	Reset
12	Port 12	0	000	54977	0	0	0	Reset
13	Port 13	0	000	54977	0	0	0	Reset
14	Port 14	0	000	54977	0	0	0	Reset
15	Port 15	0	000	54977	0	0	0	Reset
16	Port 16	0	000	54977	0	0	0	Reset

< Fig 32 User's Ports Config >

Display and set the following parameters ;

- Counter Reset of each port
- Counter Reset of all ports
- Port selection for settings

5.4.1.1 Port Configuration (Selected port)



< Fig 32 Port Config >

Display and set the following parameters ;

- Effect on : Parameter to be changed (Activity, Up/Down Speed, CO PSD Level, RT PSD Level - Only one parameter can be selected.)
- Name : Port Name change
- Activity
 - Enabled : Enable port
 - Disabled : Disable port
- Up Speed : Set Upload Speed
 - 1560, 2080, 6250, 9380 12500, 16670Mbps
- Down Speed : Set Download Speed
 - 3130, 4170, 6250, 8330, 12500, 16670Mbps
- CO PSD Level : Set PSD of CVL-S1016
 - 60, 62, 64, 66, 68, 70, 72, 74
- RT PSD Level : Set PSD of CPE(CVL-V1002)
 - 60, 62, 64, 66, 68, 70, 72, 74



User's Manual : CVL-S1016 & CVL-V1002 (Ver. 0)

- MAC Limit : Set number of MAC Address accessible to port
- SNR : SNR Information
- Reset Port
- Apply : Change and save new setup

☛ **Remarks :** It will take about 30 seconds to apply new setting for Activity, Up/Down Speed, CO/RT PSD Level

5.4.2 Up-link Ports Configuration



< Fig 33 Up-link Ports Config >

Display and set the following parameters ;

- Trunk Status : Set Activation of trunk function of Up-link A and B (Enabled/Disabled)
- Reset : Counter reset of each Up-link port
- Reset All Counters : Counter reset of all Up-link port
- Apply : Change and save new setup

6. Installation

6.1 Checking at MDF(Main Distribution Frame) room

- ▶ Survey MDF room and decide the size of Rack for the installation of CVL-S1016
- ▶ Check the cables and wirings

6.2 Checking at subscriber's location

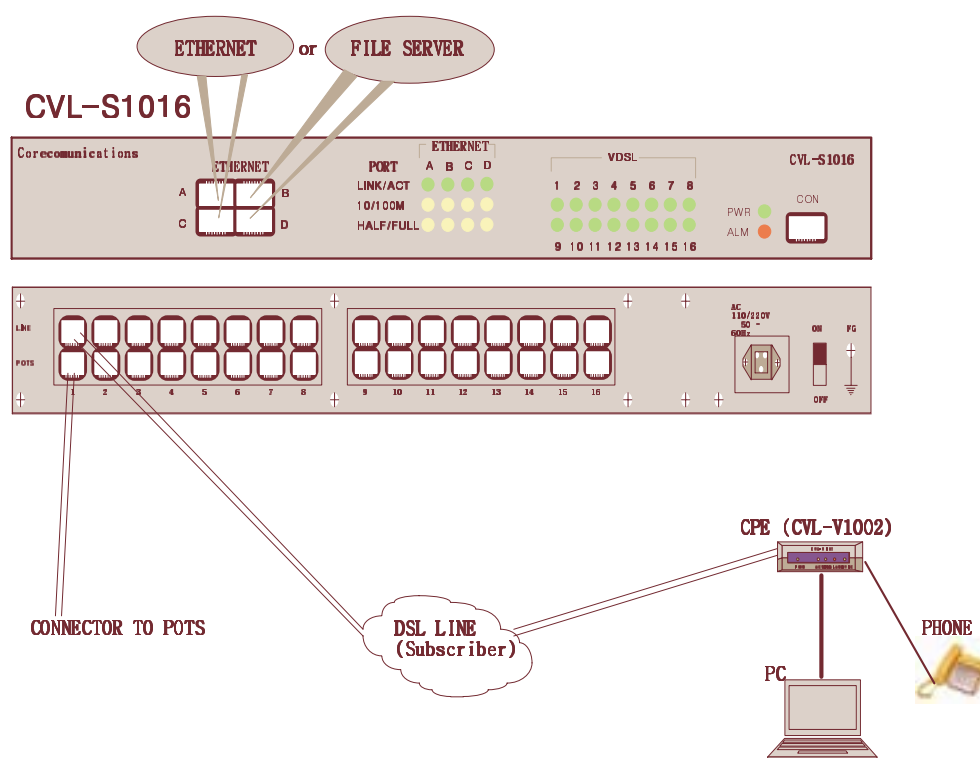
- ▶ So as to avoid decrease or change of signal, please keep installation record carefully.

6.3 Checking the Max. Distance and preliminary service

- ▶ The subscriber in the farthest area is requested to be checked at first.

6.4 Line Connection

please refer to article 2.1 for the installation of CVL-S1016



7. Cable Connection

► Cable Signal Name

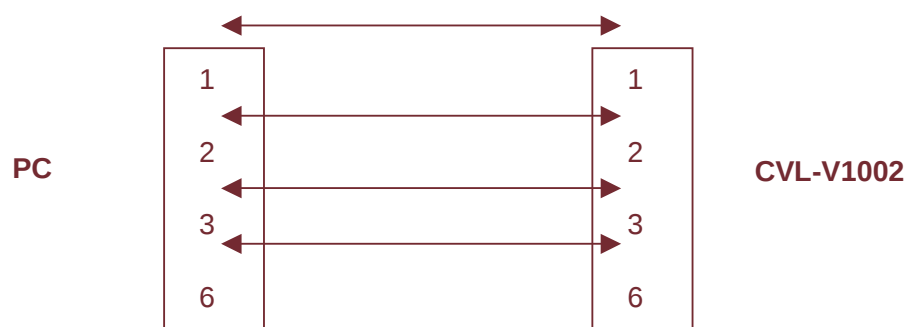
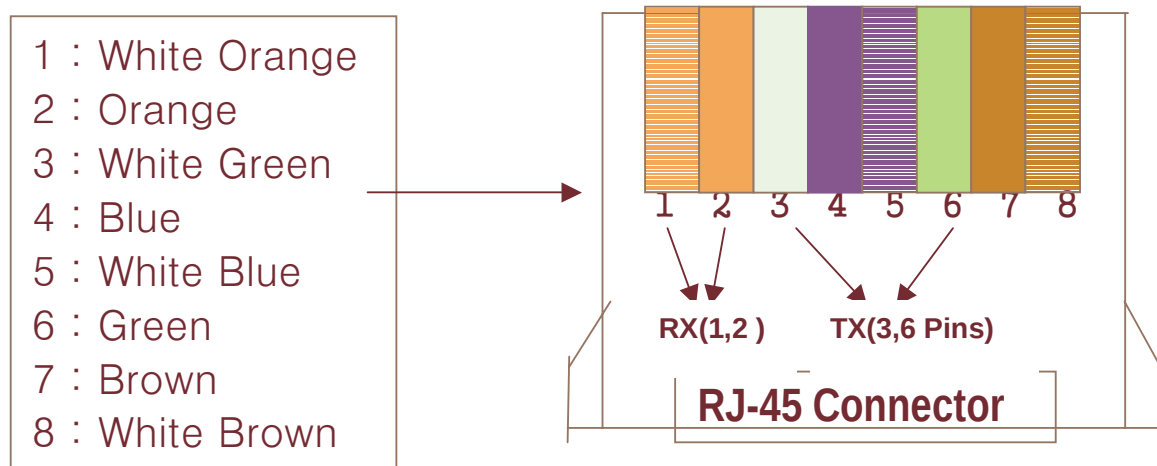
RJ-45 (10/100 BaseT) Signal Name

Pin #	Signal
1	Rx+ (receive positive)
2	Rx- (receive negative)
3	Tx+ (transmit positive)
4	Not in use
5	Not in use
6	Tx- (transmit negative)
7	Not in use
8	Not in use

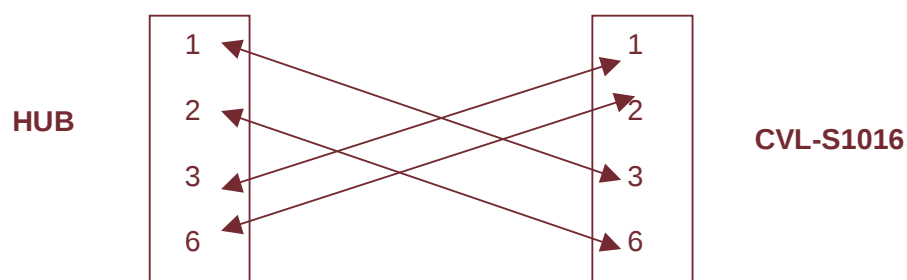
DSL Jack(RJ11) Signal Name

Pin #	Signal
1	Not in use
2	TIP
3	RING
4	Not in use

► Straight Cable Connection



► Cross Cable Connection



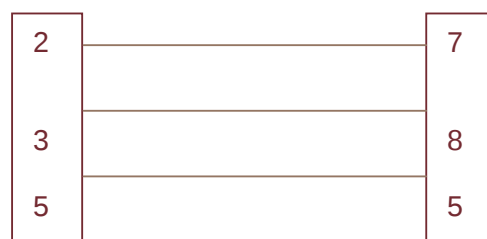
► Console cable connections



-- RJ45-8pin

DSUB-9Pin

RJ-45



8. Caution and trouble shootings

8.1 CVL-S1016

- Turn on power unit after connection with AC power cable provided.
- All power should be grounded properly
- Check SYNC LED of CVL-S1016 after connection with DSL Line. In case SYNC LED of CVL-S1016 is not turned on, please check DSL line

8.2 CVL-V1002

- 5VDC Power supply provided should be used for power supply
- Line cable provided should be used for DSL Line connection
- Check SYNC LED of CVL-V1002 after connection with DSL Line. In case SYNC LED of CVL-V1002 is not turned on, please check DSL line
- Check LINK LED of CVL-V1002 after connection with PC. In case LINK LED of CVL-V1002 is not turned on, please check LAN cable

9. System Specification

9.1 CVL-S1016

Item	Specification
Compatibility	IEEE802.3 10/100 Base
Speed	1M~12.5Mbps Full duplex, Symmetric including voice
Modulation	QAM(Quadrature Amplifier Modulation)
Capacity	DSL : 16 VDSL Ports 4 Up-Link : 10/100 Base-T Hub,
Interface	Ethernet : RJ-45 Standard 10/100 Base-T Subscribe Line : RJ-11
Power	AC : 110/220VAC , 50/60Hz, Power : 50W(Max)
Dimension	460(W)*44.45(H)*390(D)mm - 19"Rack Type, 1U
Environment	Operation Temp. : 50°C Humidity : 10%~90%, non-condensing

9.2 CVL-V1002

Item	Specification
Compatibility	IEEE802.3 10/100 Base
Speed	1M~12.5Mbps Full duplex, Symmetric including voice
Modulation	QAM(Quadrature Amplifier Modulation)
Capacity	DSL : 1 VDSL Ports 1 Up-Link : 10/100 Base-T
Interface	Ethernet : RJ-45 Standard 10/100 Base-T Subscribe Line : RJ-11
Power	AC : 110~220VAC , 50/60Hz, Power : 5W(Max)
Dimension	130(W)mm*25(H)mm*140(D)mm
Environment	Operation Temp. : 50°C Humidity : 10%~90%, non-condensing