

Discovery ATM. Ethernet Shutdown if DSL is Down.

Application Note (#20093004)

An ATM-based **FlexDSL** Discovery has unique feature: modem could shut down Ethernet Interface (LAN) if xDSL line is down. This feature could be used in complicated networks with Ring topology. To enable this feature user need to follow these steps:

1. Download special software
 - a. 5261023.410.20090430.bin for FG-PAM-SAN-4Eth-RV-4W, V8
 - b. 5241023.302.20090428.bin for FG-PAM-SAN-4Eth-RV-4W, V2
2. Connect console cable to the modem and perform the following steps:

Login to the system:

```
User: admin
Password: admin
```

Enable settings modification:

Password: root

```
SHDSL ROUTER
-----
>> enable          Modify command privilege
   status          Show running system status
   show            View system configuration
   ping            Packet internet groper command
   exit            Quit system

-----

Command: enable <CR>
Message:

-----

<I/K> Move up/down, <L/J> Select/Unselect, <U/O> Move top/bottom, <^Q> Help
```

Note: Terminal settings are: 9600, 8N1, xon/xoff

Go to Setup ---> Lan:
Interface number: 1

```
SHDSL ROUTER
-----
mode          Switch system operation mode
shdsl         Configure SHDSL parameters
wan           Configure WAN interface profile
bridge        Configure transparent bridging
vlan          Configure virtual LAN parameters
stp           Configure bridge STP parameters
route         Configure routing parameters
>> lan        Configure LAN interface profile
ip_share      Configure NAT/PAT parameters
firewall      Configure firewall parameters
ip_qos        Configure IP QoS policy
dhcp          Configure DHCP parameters
-----
Command: setup lan <1~1> <more...>
Message: Please input the following information.

Interface number <1~1>:

-----
<I/K> Move up/down, <L/J> Select/Unselect, <U/O> Move top/bottom, <^Q> Help
```

Go to auto_link_down and select Enable

```
SHDSL ROUTER
-----
ip_type       IP type
address       LAN IP address and subnet mask
attrib        NAT network type
>> auto_link_down  Auto Ethernet Link Down Enable
-----
Command: setup lan 1 auto_link_down <Disable|Enable>
Message: Please input the following information.

Auto Etherent Link Down (TAB Select) < Disable>: Enable

-----
<I/K> Move up/down, <L/J> Select/Unselect, <U/O> Move top/bottom, <^Q> Help
```

Go back to main menu, save configuration and reboot the unit

```
SHDSL ROUTER
-----
enable          Modify command privilege
setup           Configure system
status          Show running system status
show            View system configuration
>> write        Update flash configuration
reboot          Reset and boot system
ping            Packet internet groper command
admin           Setup management features
utility         TFTP upgrade utility
exit            Quit system
-----
Command: write <CR>
Message: Write configuration successful!

Are you sure? (y/n): y
Do you want to reboot? (y/n): y

-----
<I/K> Move up/down, <L/J> Select/Unselect, <U/O> Move top/bottom, <^Q> Help
```

After system reboot an Auto Ethernet Link Down feature will be enabled.

Note: If Auto Ethernet Link Down Enabled and xDSL line is disconnected or failed, modem will not be accessible via Ethernet (HTTP or Telnet)