Cable Modem

Web-Configure Illustration



For advanced technical checking purpose...

Web-Configure Illustration

This Cable Modem (CM) is built-in Web-Configure facility in providing CATV service installers more faster, convenient configuration tools to check the Cable Modem status information which consists of:

System – Cable Modem Basic Information
 Check CM's basic factory default information.



• Startup - Startup Status

To monitor CM's startup status and provide CATV installer necessary setting environment information.



Signal – Cable Signal Quality Status

To detect current signal's quality and modulation mode information received by CM.



Status – Online Status

To inquire CM's online status and authorization status.



• Scan - Channel Scan

To set up the starting/terminating frequency of downstream and upstream frequency manually.



Log – CM Status Log File

To log CM's internal operational record for technical installer's checking purpose.



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Important Notice before Use

A. Verify the Correct Installation of Hardware

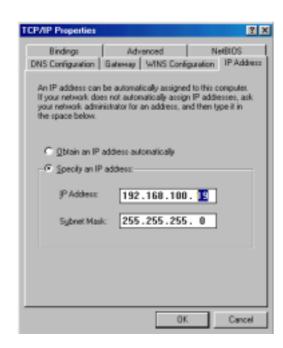
- 1. Make sure the CM is already connected to the power and the coaxial cable.
- CM's Ethernet port is already connected to computer's Ethernet card.
 (Note: Currently, this function is only supporting connection from Cable Modem's Ethernet port to CPE.)
- 3. When CM's power is on, check whether "Link" LED is on (Link LED on indicates that CM detects is with Ethernet connection) and "STS" LED status is blinking (when CM is searching for CMTS signal) or on (CM has locked the signal).... (Please refer to User Manual's LED Illustration for more details.)

B. Change PC's Setting before access Web-Configure Function

- Modify computer's [TCP/IP].
 (Please write down original setting IP address for backup purpose. After web-configure testing, you will set it back to original IP address when necessary.)
- 2. Change TC/PIP address to **192.168.100.XXX**. Whereas "XXX" indicates to key-in one of the number between "3~254". For example as figure shown below, set the IP address to 192.168.100.19.
- 3. After changing the IP address, press "Enter" to save the new IP setting. If you are using Windows 98SE, your PC will ask you to re-boot again. If you are Windows 2000 or later version, you don't need to re-start the PC and the new IP setting is already modified.
- 4. After restart the computer, please access your browser (IE 4.0 or later version as suggested) and type URL address to start the Web-Configure function.

http://192.168.100.1/info.htm





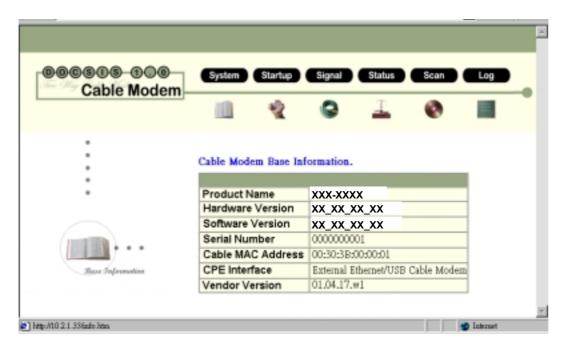
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System – Cable Modem Basic Information

Check CM's basic factory default information.



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♦ Product Name

To check the Product's Name & Model No.

♦ Hardware Version

CM's hardware version.

♦ Software Version

CM's software version.

♦ Serial Number

CM's serial number.

♦ Cable MAC Address

→ To provide CATV installer's installation/control information of CM's MAC (Media Access Control) address, i.e. 00:30:3B:00:00:01.

♦ CPE Interface

➡ Indicates this CM's interface to the CPE (Customer Premises Equipment).
 i.e. External Ethernet/USB Cable Modem.

♦ Vendor Version

CM's shipping version for tracing purpose only.

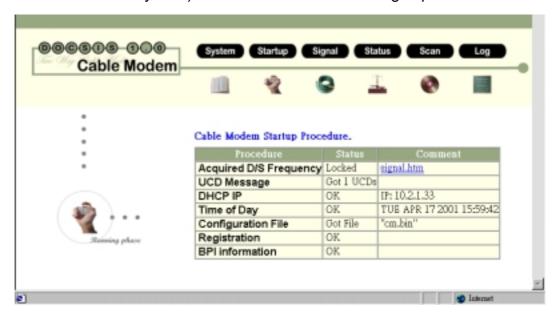
Startup – Startup Status

To monitor CM's startup status and provide CATV installer necessary setting environment information.



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This page indicates the startup status between the CM and the CMTS (Cable Modern Termination System). Please refer to the following explanation.



♦ Acquired D/S Frequency

The CM will scan the D/S (Downstream) frequency until it locks the signal. When the cable D/S frequency signal is been locked, the "Status" column will show "Locked", otherwise, it will show N/A (Not Available). Within the column − "Comment", there is a hyperlink item signal.htm, for installer to link to CM's "Signal Status" page to check CM's RF (Radio Frequency) status.

♦ UCD (Upstream Channel Descriptor) Message

⇒ When there is only one upstream channel, the column "Status" will show "Got 1 UCDs". If there are 2 upstream channels, it shows "Got 2 UCDs"...etc. It will also indicate which frequency is been used in the column "Comment".

♦ DHCP IP

This indicates the IP address CM got from DHCP, otherwise, it show N/A.

♦ Time of Day

⊃ Display the current time from the system, i.e. TUE APR 17 200115:59:42.

♦ Configuration File

Display the CM's configuration file name.

♦ Registration

→ Indicate the CM's "Registration" status to be OK or N/A.

♦ BPI information

➡ Indicate the CM's BPI status. OK or N/A.

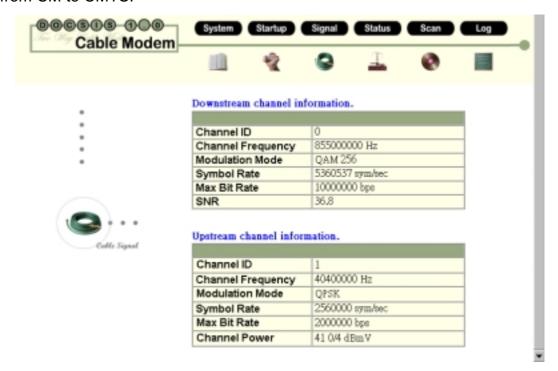
Signal – Cable Cable Signal Quality Status

To detect current signal's quality and modulation mode information and RF status detected by CM.



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"Downstream channel information" shows the D/S status from CMTS to CM and "Upstream channel information" shows the U/S status from CM to CMTS.



♦ Channel ID

⇒ Display the U/S or D/S's Channel ID.

♦ Channel Frequency

→ Indicates the U/S and D/S's frequency been used.

♦ Modulation Mode

Display the CMTS's modulation mode.

♦ Symbol Rate

Display the CM's symbol rate.

♦ Max Bit Rate

☐ Indicate the CM's max bit rate.

♦ SNR

Display CM's SNR (Signal Noise Ratio).

♦ Channel Power

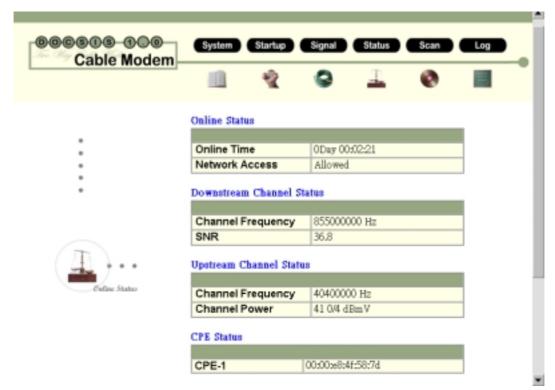
⇒ Indicate CM's channel power. i.e. U/S's channel power is 41 0/4dBmV, that means 41.0 dBmV.

Status – Online Status

To inquire CM's online status and authorization status.



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♦ Online Status

- Online Time
 - ➡ Indicate CM's continuously time of useage.
- Network Access
 - ⇒ Display whether the CM is allowed to connect to the network or not.
- ♦ Downstream Channel Status (The signal status from CMTS to CM)
 - Channel Frequency
 - Display the D/S channel frequency.
 - > SNR
 - ⇒ Indicate CM's SNR.
- ♦ Upstream Channel Status :
 - Channel Frequency
 - Display the U/S channel frequency.
 - Channel Power
 - Indicate CM's channel power.

♦ CPE Status

➤ CPE-1 → Here is to show the CPE's identification, i.e. 00:00:e8:4f:58:7d. If the CM access to more than one CPE (max. support 15 CPEs as CableLabs defined.), this column will indicate the information from the CMTS of the number of CPEs can be supported by this CM.

• Scan - Channel Scan

To set up the starting/terminating frequency of downstream and upstream frequency manually.

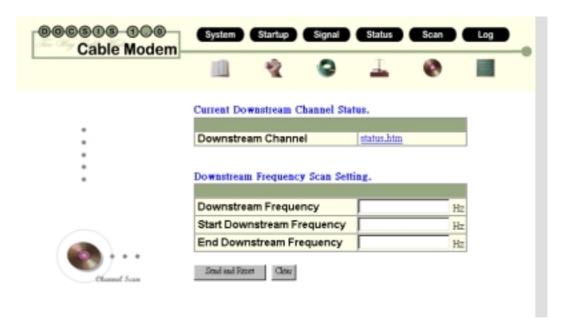
Channel Scan

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With this function, the installer can skip the long waiting time

from CM to scan the signal and can manually pre-set the known frequency and scan, lock the signal. This is to save CATV installer's time of the installation.

"Current Downstream channel status" provides the hyperlink function to check the downstream channel status.



♦ Downstream Frequency Scan Setting

- Downstream Frequency
 - ⇒ Key-in your known D/S frequency for CM's starting frequency.
- > Start Downstream Frequency
 - Set up the starting downstream frequency.
- > End Downstream Frequency
 - Set up the ending downstream frequency.
- > Send and reset
 - ➡ To execute the setting command and CM will start to scan base on the above setting.
- > Clear
 - To clear the above setting.

Log – CM Status Log File

To log CM's internal operational record for technical installer's checking purpose.



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