



Coax MDU System Firmware Release Note

Version 3.43 **2009/06/24**

1. New Features

Following is a list of new features introduced in **Version 3.43** of the Coax MDU system firmware relative to **Version 3.42**.

	Description
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2. Bugs Fixed

	Description
1	More than five user login will bring system some trouble. If the 6 th user tries to login, system will reject this request. Unfortunately, after this event, system also can't work well.
2	One off-line EP can't be deleted. With web browser, in "EP Management" page, user can delete off-line EP from list. In V3.42, there is one EP can't be removed. Correct it.

Version 3.42 2009/06/19

1. New Features

Following is a list of new features introduced in **Version 3.42** of the Coax MDU system firmware relative to **Version 3.40**.

	Description
1	To modify option 82 content in DHCP packet. Put master LAN MAC in Circuit ID, and EP MAC in Remote ID.

2. Bugs Fixed

	Description
1	To fix the bug if there are more than 31 EPs. In previous version, when you remove 31th EP from network and put another EP onto the network, you will not see the new EP from master even you have removed the 31th EP from list. Correct it.



Version 3.41 2009/04/14

1. New Features

Following is a list of new features introduced in **Version 3.41** of the Coax MDU system firmware relative to **Version 3.39**.

	Description
1	Blank giaddr field in DHCP option82 mode. Blank the Relay IP (giaddr) of DHCP packets emitted from PC @ EP while enable "DHCP option82 " mode.
2	System will restart automatically after “DHCP Option 82 and Snooping” mode has been modified.

2. Bugs Fixed

	Description
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Version 3.40 2009/04/13

1. New Features

Following is a list of new features introduced in **Version 3.40** of the Coax MDU system firmware relative to **Version 3.39**.

	Description
1	Blank giaddr field in DHCP option82 mode. Blank the Relay IP (giaddr) of DHCP packets emitted from PC @ EP while enable "DHCP option82 " mode.

2. Bugs Fixed

	Description
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Version 3.39 2009/01/13

1. New Features

Following is a list of new features introduced in **Version 3.39** of the Coax MDU system firmware relative to **Version 3.37**.

	Description
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2. Bugs Fixed

	Description
1	Fail to configure EP in Auto Configuration Mode In auto configuration mode, anytime when EPs are on-line, system will get configuration profile via TFTP and program EP automatically. In V3.37, the procedure maybe failed sometimes.
2	Incompatible with Google Chrome “Upload Firmware” can not work well in Google Chrome.
3	After to change Privacy Mode or Key, system will set master row to yellow in page “EP Management”. The color still remains yellow even you have upgraded master and EPs HomePNA driver. Correcting this bug in V3.39.



Version 3.37 2008/12/18

1. New Features

Following is a list of new features introduced in **Version 3.37** of the Coax MDU system firmware relative to **Version 3.34**.

	Description
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2. Bugs Fixed

	Description
1	In previous release, read-only user also can modify page “Static MAC”, correct it.

Version 3.34 2008/11/12

1. New Features

Following is a list of new features introduced in **Version 3.34** of the Coax MDU system firmware relative to **Version 3.33**.

	Description
1	Host Limit Count is ranged from 0 to 11. From this release, maximum host limit count is changed from 255 to 11.

2. Miscellaneous

	Description
1	Do not display password in backup profile. Password item in Administrator entry will be marked with “*****”. If you want to modify password or add new administrator, you must fill new password before to restore profile.

1. New Features

Following is a list of new features introduced in **Version 3.33** of the Coax MDU system firmware relative to **Version 3.24**.

	Description
1	Support DHCP Snooping. Master will allow only host (PC) at EP that using DHCP client (validated by DHCP server) to access the Master LAN ports. That is, user host behind EP could access the HPNA trunk with legal DHCP client granted by DHCP server.
2	Support Non-Stop Service SNR Measurement. In previous release, to measure SNR and Rx Power will stop HomePNA service. V3.33 provides non-stop service SNR measurement. This feature only work if there is traffic.
3	Modify reset-button scenario, supporting two kinds of default setting. One is factory setting. It is same for all OEM customers. The other one is OEM customer dependent factory setting.

2. Bugs Fixed

	Description
1	Fix the bug in TFTP downloading procedure.
2	Fix the bug of profile restore.

1. New Features

Following is a list of new features introduced in **Version 3.24** of the Coax MDU system firmware relative to **Version 3.07**.

	Description
1	Support Dynamic IP. For master IP address, in addition to assign a static IP, you also can set to dynamic IP mode which is allocated by DHCP. In Dynamic IP mode, SYSLOG, TFTP and NTP server also could be assigned by DHCP protocol.
2	Support Auto-Configuration by TFTP. Every time when the device (either Master or EP) is on-line, Auto-Configuration will download profile from TFTP server and configure device automatically. IP address of TFTP server can be assigned on Master device manually, or assigned during DHCP procedure.
3	Support Option-82. When the PCs behind EPs allocate IP by DHCP protocol, master will insert EP's MAC address into DHCP packets.

1. New Features

Following is a list of new features introduced in **Version 3.07** of the Coax MDU system firmware relative to **Version 2.10**.

	Description
1	Support the interoperability between CG3010 and new chip CG3110. From Coax MDU master, you can both manage CG3010 and CG3110 EPs in the same network segment.
2	Support manageable EP. New manageable EP is announced. You can program EPs remotely via master bridge. <ul style="list-style-type: none">- View status and statistics of LAN ports- Enable/Disable bandwidth control, include upstream and downstream.- Enable/Disable Tag VLAN and program VID, priority and tag policy.- Enable/Disable IGMP (V1 and V2 only) snooping.- Program QoS parameters.
3	Support noise spectrum analyzer. With this feature, you can measure noise spectrum in field.
4	Modify user interface for new features, include web GUI, Telnet and SNMP. To add new Telnet commands, modify web GUI and MIB file for SNMP.
5	Supporting SNMP interface to program manageable EP. You can manage new EP (manageable) via SNMP, new MIB file is necessary.

2. Bugs Fixed

	Description
1	Improper response if web browser doesn't support cookies. You can manage new EP (manageable) via SNMP, new MIB file is necessary.
2	Telnet disabled can not work after system reboot. If user disable telnet, .



Version 2.7.5-0 2007/06/11

1. New Features

Following is a list of new features introduced in **Version 2.7.5-0** of the Coax MDU HomePNA driver relative to **Version 2.7.4-0**.

	Description
1	31 EP support. Coax MDU supports up to 31 EPs connected to the Master.

2. Bugs Fixed

	Description
1	MASTER does not drop to minimum Multicast PE. Minimum PE on multicast transmission was not enforced correctly.

1. New Features

Following is a list of new features introduced in **Version 2.7.4-0** of the Coax MDU HomePNA driver relative to **Version 1.7.2**.

	Description
1	Improved EP to EP security. The EP-EP security is done in the physical layer.
2	Dynamic Configuration. The EP configuration can be dynamically managed via the master by the master or by external host. With this feature, you don't need to update EP's driver after modify configuration. This feature must works with CEM-336 system firmware V2.10. It will be available in near future.
3	Enhanced Priority-based QoS support. V2.7.4 supports identification and marking of customized traffic types based on configurable traffic classifier rules and support for priority-based queue management and media access. Priority support is provided for up to 8 priority levels.
4	Support LARQ.

2. Bugs Fixed

	Description
1	MASTER does not drop to minimum Multicast PE. Minimum PE on multicast transmission was not enforced correctly.
2	MxU application limitations. There are no limitations on EP to EP attenuation.

Version 1.7.2 2006/06/15

1. New Features

Following is a list of new features introduced in **Version 1.7.2** of the Coax MDU HomePNA driver relative to **Version 1.6.3**.

	Description
1	Support high band (12~28).

2. Bugs Fixed

	Description
1	Unexpected (self) PER in some multi stream scenarios. In some scenarios involving multiple data streams from multiple sources, PER results achieved were one order or magnitude worse than the expected result. The PER was self inflicted and had a statistical probability of occurring depending on the traffic mix, rates and packet sizes. This bug caused a PER result of approx. 1e-6 for a 12-hour traffic scenario where of PER of better than 1e-7 was expected.
2	Improved robustness in noisy environments. To reduce the number of potential packet errors/loss that may occur in such environments.
3	Handling of VLAN-tagged control messages. VLAN-tagged control messages were not handled correctly and were not forwarded onto the target device. This resulted in the failure of diagnostic in an environment containing a VLAN enabled switch.

