

CM65XX EEPROM Configuration Tool User Manual

<u>Rev. 0.2</u> <u>April. 6, 2012</u>



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Revision History

| Revision | Date | Description | |
|----------|------------|---------------------------|--|
| 0.1 | 2012/02/16 | First release | |
| 0.2 | 2012/04/06 | Spec Changed | |
| | | 5.2 Audio I/O Config Page | |
| | | | |



1. Introduction

C-Media provides an EEPROM tool for manufacturer to set the EEPROM setting of CM65XX series IC.

2. Device Requirement

- 1) Personal Computer with Windows XP/Vista/Win7 (32 or 64bit)
- 2) USB Cable (Type A-Type B)



3) CM65XX Hardware device



(CM65XX EVB)



3. Basic Connection and Setting

- 1) Use a USB cable (Type A-Type B) to connect the CM65XX EVB to your computer.
- Open the Windows Control Panel → Device Manager → double click the "USB Audio Device" item to open the USB Audio Device Properties dialog box.





USB Audio Device Properties dialog box

| USB Advanced Audio Device Properties | | |
|--------------------------------------|------------------------------------|--|
| General | Driver Details | |
| | USB Advanced / | Audio Device |
| | Device type: | Sound, video and game controllers |
| | Manufacturer: | (Generic USB Audio) |
| | Location: | 0000.001d.0001.002.000.000.000.000.000 |
| - Devi This | ce status a device is working p | roperty. |
| | | * |
| | | OK Cancel |

3) In the "Detailed" tab, get the CM65XX device's **VID/PID** (Ex. 0D8C/01AF).

| USB Advanced Audio Device Properties |
|---|
| General Driver Details |
| USB Advanced Audio Device |
| Property |
| Hardware Ids |
| Value |
| USB\VID_0D8C&PID_01AF&REV_0000&MI_00 USB\VID_0D8C&PID_01AF&MI_00 |
| OK Cancel |



4. Start Using The CM65XX Configuration Tool

4.1 Open the CM65XX Configuration Tool

1) Double click the Configuration tool "Config65XX.exe".

| | onfigure_Tool_T 🕨 🔻 🍫 Sean | ch CM65XX_Configure_Tool_Topol 🔎 |
|--|--|----------------------------------|
| Organize 🔻 📷 Open | Share with 👻 New folder | •• • • • |
| Favorites Desktop Downloads Recent Places | Skin CMVC.sys | XX TopoDesc_ CM65XXXX ML |
| Documents | | |
| Config65XX.exe Application | Date modified: 4/3/2012 6:15 PM Da Size: 644 KB | ate created: 4/3/2012 2:12 PM |

2) You will see the configuration tool "Config65XX.exe" dialog box.

| CM65XX Configuration |
|---|
| USB Config Audio I/O Config MCU Config |
| Reset |
| |
| VID: PID: |
| String |
| Manufacturer String: |
| Product String: |
| Serial String: |
| |
| |
| |
| |
| I Enable Remote Wakeup |
| Powered: Bus |
| Power Range: 100ma 💌 |
| |
| |
| |
| |
| EEPROM TYPE |
| Refresh VID PID Connect |
| Save EEPROM Erase EEPROM -> FILE FILE -> EEPROM |



3) Connect to CM65XX hardware device

Step1- Choose the EEPROM TYPE (Ex. S24C32), please make sure the EEPROM Type.

| EEPROM TYPE | | |
|------------------|---------|-------------------------------|
| S24C32 🔻 | Refresh | VID 0D8C PID 01AF Connect |
| S24C32 S24C64 | Erase | EEPROM -> FILE FILE -> EEPROM |

Step2- Input the VIP and PID (Case Insensitive).

| EEPROM TYPE | | |
|-------------------|------------------------|---------|
| S24C32 Refresh | VID 0D8C PID 01AF | Connect |
| Save EEPROM Erase | EEPROM -> FILE FILE -> | EEPROM |

Step3- Click [Connect].

| EEPROM TYPE | | |
|-------------|---------|-------------------------------|
| S24C32 - | Refresh | VID 0D8C PID 01AF Connect |
| Save EEPROM | Erase | EEPROM -> FILE FILE -> EEPROM |

Step4- Make sure the connection status.

• Successful connections

If the connection is successful but the EEPROM data is empty, you will see a dialog box as below.





If the connection is successful, you will see a dialog box with default data as below. (The default data could be empty.)

| CM65XX Configuration |
|--|
| USB Config Audio I/O Config MCU Config PlayBack EQ Config Record EQ Config About |
| Reset |
| |
| VID: 0D8C PID: 01AF |
| _ String |
| Manufacturer String: Cmedia |
| Product String: CM65XX |
| Serial String: 2006 |
| Condi Caling. Jesses |
| |
| |
| Finable HID Discriptor |
| Enable Remote Wakeup |
| Powered: Bus |
| Power Range: 100ma |
| |
| |
| |
| |
| |
| S24C32 Refresh VID 0D8C PID 01AF Stop |
| Save EEPROM Erase EEPROM -> FILE FILE -> EEPROM |

• Failed connection

If the connection is failed, you will see a dialog box as below.

| Config65XX | X |
|---------------|-------------------|
| Cannot find t | he HID device !!! |
| | OK |



4.2 Saving EEPROM

This function can write data to the EEPROM, whenever the EEPROM settings are changed, the hardware device needs to **re-plug** to make the settings take effect.

When each page of setting has set, click on the [Save EEPROM] to start writing data into EEPROM.

| EEPROM TYPE | | |
|-------------|---------|-------------------------------|
| S24C32 👻 | Refresh | VID 0D8C PID 01AF Stop |
| Save EEPROM | Erase | EEPROM -> FILE FILE -> EEPROM |

Each page of the EEPROM settings, you can find the function description on <u>Chapter 5.0</u>

| CM65XX Configuration | x |
|--|----------|
| USB Config Audio I/O Config MCU Config PlayBack EQ Config Record EQ Config | About |

When the saving is completely you will see below dialog box.



If the EEPROM size is not enough, you will see below dialog box.



(Note: EEPROM writing time depends on the amount of data.)



4.3 Erase EEPROM

This function can erase all data of EEPROM.

ERASE

Click on [Erase] to erase the all EEPROM data.

| EEPROM TYPE | | |
|-------------|---------|-------------------------------|
| S24C32 - | Refresh | VID 0D8C PID 01AF Stop |
| Save EEPROM | Erase | EEPROM -> FILE FILE -> EEPROM |

After EEPROM erasing, you can see a message as below dialog box.

| Config65XX | × |
|--|-----------------|
| Erase EEPROM completely. Please un-plug and re-plug the USB device for the changes to | take effect !!! |
| | ОК |

(Note: EEPROM erasing time depends on the EERPOM model.)



4.4 EEPROM → File

This function can export EERPOM data to a binary file

EEPROM->FILE

Click on the [EEPROM ->FILE], this tool will export the data of the EEPROM into a binary file.

| EEPROM TYPE | | |
|-------------------|----------------|----------------|
| S24C32 - Refrest | VID 0D8C PID | 01AF Stop |
| Save EEPROM Erase | EEPROM -> FILE | FILE -> EEPROM |

You need to select the storage location and type a file name and then click on [Save].

| Save As | | | | x |
|---------------|---|----------------------|--|---|
| Save in: | Documents | • | ← 🗈 💣 💷 ▼ | |
| Ca | Name | · · | Date modified | Туре |
| Recent Places | 📕 LeCroy 🔊 My Music 🔊 My Music | | 7/18/2011 7:12 PM 6/27/2011 1:57 PM 7/14/2009 12:53 PM | File folder File folder File folder |
| Desktop | My Pictures My Pictures My Videos | | 6/27/2011 1:57 PM 7/14/2009 12:53 PM 6/27/2011 1:57 PM | File folder File folder File folder |
| Libraries | 📄 My Videos 퉬 Visual Studio | o 2008 | 7/14/2009 12:53 PM 2/28/2012 10:06 PM | File folder File folder |
| Computer | | | | |
| | • | | | • |
| | File <u>n</u> ame: | CM65XX_EEPROM | - | <u>S</u> ave |
| | Save as type: | EERPOM files (*.bin) | • | Cancel |

After binary file export is finished, you can see below dialog box.





4.5 File → EEPROM

This function can load a binary file and write to EEPROM.

FILE->EEPROM

Click on [FILE->EEPROM] can load a binary file.

| EEPROM TYPE | | | |
|-------------|---------|----------------|----------------|
| S24C32 🔻 | Refresh | VID 0D8C PID | 01AF Stop |
| Save EEPROM | Erase | EEPROM -> FILE | FILE -> EEPROM |

Choose a binary file (*.bin) that you want to write to EEPROM.

| Open | | | | | | X |
|---------------|--------------------|--|---|-----|----------|----------|
| Look in: | Desktop | • | • | ← 🏛 | r | - |
| Recent Places | Fi | estMonitorServiceWithSDK le folder | | | | • |
| Desktop | Fi | /aveGen le folder | | | | |
| Libraries | BI 3. | M65XX_EEPROM.bin IN File 99 KB | | | | |
| Computer | RI BI 3. | M5023_Code.bin IN File 91 KB | | | | |
| | Sł | nare on cmpc-ef00000159 nortcut 59 bytes | | | | |
| Network | File <u>n</u> ame: | CM65XX_EEPROM.bin | | | • | Open |
| | Files of type: | EERPOM files (*.bin) | | | • | Cancel |

After the EEPROM data writing is finished, you can see below dialog box.

| Config65XX | — X — |
|--|----------------|
| File -> EEPROM completely. Please un-plug and re-plug the USB device for the changes to t | ake effect !!! |
| | ОК |



4.6 Refresh

Click on [REFRESH], configuration tool will auto execute the [Stop] and then execute [Connect] to refresh the EEPROM connection.

| EEPROM TYPE | | |
|-------------|---------|-------------------------------|
| S24C32 🔻 | Refresh | VID 0D8C PID 01AF Stop |
| Save EEPROM | Erase | EEPROM -> FILE FILE -> EEPROM |

| EEPROM TYPE | | | |
|-------------|---------|------------------------|--------|
| S24C32 - | Refresh | VID 0D8C PID 01AF | Stop |
| Save EEPROM | Erase | EEPROM -> FILE FILE -> | EEPROM |

| EEPROM TYPE | Befresh | VID 008C PID 014E Connect |
|-------------|---------|-------------------------------|
| Save EEPROM | Erase | EEPROM -> FILE FILE -> EEPROM |



5. CM65XX Configuration Settings Introduction

5.1 USB Config Page

Set the USB information and USB setting

| | | CM65XX Configuration |
|---|---|---|
| | | USB Config Audio I/O Config MCU Config PlayBack EQ Config Record EQ Config About |
| 1 | | Reset ID VID: 0D8C PID: 01AF |
| 2 | / | Product String: CM65XX Serial String: 2.0.0.6 |
| 3 | | Enable HID Discriptor Enable Remote Wakeup Powered: Bus Power Range: 100ma |

USB Information

- 1. ID VID Vendor ID PID Product ID
- 2. String (String limit 30bytes)

Manufacture String

Input Manufacture name



Product String

Input Product Model No. or Model Name

Serial Number

Input product serial number or version.

3. USB Setting

- Enable HID Descriptor Enable HID Function
- Enable Remote Wakeup Enable Remote Wakeup
- Powered

Bus: Power supply by the USB ORT Self: Power supply by the external power

• **Power Range (100ma~500ma)** Set the power range.



5.2 Audio I/O Config Page

In this page, you can set some options:

Set options

Set output/input terminal type. Set output/input terminal to enable/disable.

Set AAPath enabled/disabled.

Set volume and mute status:

Set default volume and volume range for all endpoints. Set initial status (mute/un-mute, AGC on/off) for all endpoints.

| | | CM65XX Configuration USB Config Audio I/O Config MCU Config PlayBack EQ Config Record EQ | Config About |
|-----|---|--|--|
| 1 - | | Disable Volume Control Reset | |
| 1 | | Output Setting Output Terminal: Speaker PlayBack I2S Mode: Master Fnable PlayBack I2S | Input Terminal: Micla V Input Setting Record I2S Mode: Slave V |
| 2 | | Mode □ Enable PlayBack DSP ✓ Enable SPDIF Out □ Enable PlayBack MCLK − Playback Volume (Chip Hardware range: -62 ~ 0 dB. Initial value: -10dB) | Finable AGC Finable AGC Finable Record DSP Finable SPDIF In Finable Stereo Mixer Input Terminal |
| | | Minimum: -20 V Maximum: -9 V Initial value: -10 V (dB) (dB) -10 V | Line-In Recording Volume (Chip Hardware range: -30 ~ 33 dB. Initial value: 0dB) Initial Mute Minimum: (dB) Initial value: (dB) (dB) Initial value: Initial v |
| | | A-A path Setting | Mic-In Recording Volume (Chip Hardware range: -18 ~ 45 dB. Initial value: 20dB) Initial Mute Minimum: (dB) Initial value: 20 (dB) Initial value: 20 (dB) |
| 3 — | | - Mic-In AA Volume (Chip Hardware range: -14 ~ 32 dB. Initial value: 0dB) // Initial Mute Minimum: -14 / Maximum: 32 / Initial value: 0 / (dB) | Stereo Mixer-in Volume (Chip Hardware range: -18 ~ 45 dB. Initial value: 20dB) I Initial Mute Minimum: -18 v Maximum: 45 v Initial value: 20 v |
| | | - Line-In AA Volume (Chip Hardware range: -29 ~ 12 dB. Initial value: 0dB) V Initial Mute Minimum: -29 V Maximum: 12 V Initial value: 0 V (dB) (dB) | Due to limitation of Windows XP. The "MAXIMUM" and "MINIMUM" volume cannot be set as "INITIAL" value; moreover, the "INITIAL MUTE" function |
| | - | | |
| | | S24C32 Refresh VID 0d8c PID 01ac Save EEPROM Erase EEPROM -> FILE FILE -> | Stop EEPROM |

(Options will be grayed if device doesn't support its configuring.)

1. Disable Volume Control

If this item is checked, all settings on this page will not be written to the EEPROM.



2. Output Setting

| USB Config | Audio I/O Config M | CU Config PlayBack EQ Config Record EQ | | | |
|--|--|--|--|--|--|
| Disable Volume Control Reset | | | | | |
| | 0 | Output Setting | | | |
| Output T | eminal: Speaker | ✓ PlayBack I2S Mode: Master ▼ | | | |
| ☐ Enab Mode | le Playback Asynchron e le SPDIFOut | ous Enable PlayBack I2S Enable PlayBack DSP Enable PlayBack MCLK | | | |
| - Playback Initial Minimur (dB) | : Volume (Chip Hardwar Mute n: -62 • Maxim (dB) | re range: -62 ~ 0 dB. Initial value: -10dB) num: 0 ▼ Initial value: -10 ▼ (dB) | | | |

Output Terminal

Set the Output device Endpoint in Speaker or Headphone.

- Playback I2S Mode
 Master Mode:
 BCLK, LRCK are provided by I2S Interface
 Slave Mode:
 BCLK, LRCK are provided by Codec
- Enable Playback Asynchronous Mode When asynchronous mode support, the host will adjust sending package length by the content of feedback.
- Enable I2S (Playback and Record) Use internal I2S
- Enable SPDIF Out
 Enable SPDIF Out Endpoint
- Enable DSP (Playback and Record)



Enable DSP process and use external I2S

Enable MCLK (The Playback I2S Mode must be Slave.)
 Use internal MCLK

Playback Volume

| - Playback | Volume Mute | (Chip H | lardware rar | nge: | -62 ~ 0 (| dB. Initial valu | e: -10d | B) |
|-----------------|----------------|---------|------------------|------|-----------|------------------------|---------|----|
| Minimum (dB) | -62 | • | Maximum: (dB) | 0 | • | Initial value: (dB) | -10 | • |

Initial Mute:

Set the Playback default status on mute.

Minimum (dB):

Set the Playback minimum volume

Maximum (dB):

Set the Playback minimum volume

Initial value:

Set the Playback minimum volume

(The volume range depends on the hardware spec.)



3. A-A Path Setting

| A-A path Setting | | | | |
|--|--|--|--|--|
| - Mic-In AA Volume (Chip Hardware range: -14 ~ 32 dB. Initial value: 0dB) | | | | |
| Minimum: -14 Maximum: 32 Initial value: 0 (dB) (dB) | | | | |
| - Line-In AA Volume (Chip Hardware range: -29 ~ 12 dB. Initial value: 0dB) ↓ Initial Mute | | | | |
| (dB) -29 (dB) 12 (dB) 0 - | | | | |

Enable AA Path

Enable Analog Monitoring Path (This option will make USB topology changed.)

Mic-In AA Volume
 Initial Mute:
 Set the Mic-In AA Path default status on mute.

 Minimum (dB):
 Set the Mic-In AA Path minimum volume
 Maximum (dB):
 Set the Mic-In AA Path minimum volume

Initial value:

Set the Mic-In AA Path minimum volume

Line-In AA Volume

Initial Mute:

Set the Line-In AA Path default status on mute.

Minimum (dB):

Set the Line-In AA Path minimum volume

Maximum (dB):

Set the Line-In AA Path minimum volume

Initial value:

Set the Line-In AA Path minimum volume

(All volume range depends on the hardware spec.)



4. Input Setting

| Input Terminal: Micln v Record I2S Mode: Master v |
|--|
| Rec. Mode: Synchronous 💌 🗆 Enable Record I2S |
| Enable AGC Enable Record DSP Enable Digital Mic Enable SPDIF In Enable Stereo Mixer Input Terminal |
| Line-In Recording Volume (Chip Hardware range: -30 ~ 33 dB. Initial value: 0dB) Initial Mute Minimum: (dB) Maximum: (dB) Maximum: (dB) Maximum: (dB) Maximum: (dB) |
| Mic-In Recording Volume (Chip Hardware range: -18 ~ 45 dB. Initial value: 20dB) Initial Mute Minimum: (dB) -18 	 Maximum: (dB) 45 	 (dB) 20 |
| StereoMixer-in Volume (Chip Hardware range: -18 ~ 45 dB. Initial value: 20dB) – ☐ Initial Mute |
| Minimum: -18 V Maximum: 45 V Initial value: 20 V |
| Due to limitation of Windows XP. The "MAXIMUM" and "MINIMUM" volume cannot be set as "INITIAL" value; moreover, the "INITIAL MUTE" function |

Input Terminal

Set the Input device Endpoint in MicIn or LineIn. (If the current audio model only supports MicIn, this combo-box will be auto set to MicIn and grayed.)

Record I2S Mode

Set the I2S Mode to Master or Slave

Rec. Mode

Asynchronous:

Host will not receive data with uniform length but depend on what record device receiving

Enable Record I2S Enable Record I2S Mode

Linable Record 125 Mod

Enable AGC

Enable Automatic Gain Control



- Enable Record DSP
 Enable Record DSP
- Enable Digital Mic Enable Digital Mic Endpoint
- Enable Record MCLK (The Record I2S Mode must be Slave.) Enable Record MCLK
- Enable SPDIF In (The Rec. Mode must be Asynchronous.)
 Enable SPDIF In Endpoint (This option will make USB topology changed.)
- Enable Stereo Mixer Input Terminal
 Enable Stereo Mixer Input Endpoint (This option will make USB topology changed.)

■ Line-In Recording Volume

| Line-In Rec | Line-In Recording Volume (Chip Hardware range: -30 ~ 33 dB. Initial value: 0dB) | | | | | | | | |
|------------------|---|---|------------------|----|---|------------------------|---|---|--|
| 📃 Initial M | ute | | | | | | | | |
| Minimum: (dB) | -30 | • | Maximum: (dB) | 33 | • | Initial value: (dB) | 0 | • | |

Initial Mute:

Set the Line-In Recording default status on mute.

Minimum (dB):

Set the Line-In Recording of minimum volume

Maximum (dB):

Set the Line-In Recording of maximum volume

Initial value:

Set the Line-In Recording of initial volume



Mic-In Recording Volume



Initial Mute:

Set the Mic-In Recording default status on mute.

Minimum (dB):

Set the Mic-In Recording of minimum volume

Maximum (dB):

Set the Mic-In Recording of maximum volume

Initial value:

Set the Mic-In Recording of initial volume

StereoMixer-In Recording Volume

You must enable StereoMixer Input Terminal first, this part would be available.



Initial Mute:

Set the StereoMixer-In Recording default status on mute.

Minimum (dB):

Set the StereoMixer-In Recording of minimum volume **Maximum (dB)**:

Set the StereoMixer-In Recording of maximum volume **Initial value:**

Set the StereoMixer-In Recording of initial volume

(All the volume range depends on the hardware spec.)



5.3 MCU Config Page

| | CM65XX Configuration | |
|---|---|---|
| | USB Config Audio I/O Config MCU Config PlayBack EQ Config Record EQ Config About | |
| | Reset MCU related setting Fenable Jump to MCU SRAM Code Fenable Lync Basic HeadSet | |
| 1 | MCU Info In File Image: Chip ID 6502 VID 0D8C Image: File Image: File Image: File MCU Chip Version 0100 PID 0170 Step 1 | 2 |
| 3 | FW Version 0000 Read MCU File | 2 |
| 4 | Step 2 MCU Info In EEPROM Chip ID VID Chip Version PID FW Version | |
| | | |

1. Enable Jump to MCU SRAM Code Enable to replace internal 8051 code

2. Enable Lync Basic Headset

Enable Lync Basic Headset

3. MCU Info In File

Step 1 Check the "Enable MCU" Step 2 Click on [Read MCU File]



Step 3

Choose a MCU Code File

| 📀 Open | | | | | — X — |
|------------------|--------------------------|--------------------|---|---------|--------------|
| Look <u>i</u> n: | E Desktop | | • | + 🛍 💣 📰 | - |
| Recent Places | Wa File | aveGen e folder | | | * |
| Desktop | BIN 3.9 | N File 9 KB | | | |
| Libraries | | V File 9 KB | | | |
| Computer | BIN 3.9 | V File 1 KB | | | = |
| Network | Sho International Sho | ortcut 9 bytes | | | - |
| | File <u>n</u> ame: | RM5023_Code.bin | | • | Open |
| | Files of type: | MCU files (* bin) | | • | Cancel |

Step 4

After the MCU Code File loading, you can see the MCU Code content as below.

| Г | MCU Info In File | | | | | |
|---|------------------|------|-----------------------|--|--|--|
| | Chip ID | 6502 | VID 0D8C I Enable MCU | | | |
| | Chip Version | 0100 | PID 0170 | | | |
| | FW Version | 0000 | Read MCU File | | | |

4. MCU Info In EEPROM

If the there already has the MCU code in EERPOM, you can see the related info as below.

| MCU Info In EE | MCU Info In EEPROM | | | | | |
|----------------|--------------------|-----|------|--|--|--|
| Chip ID | 6502 | VID | 0D8C | | | |
| Chip Version | 0100 | PID | 0170 | | | |
| FW Version | 0000 | | | | | |
| | | | | | | |



5.5 PlayBack EQ Config Page

PlayBack EQ provides 4 preset modes; every mode can set 5 bands of gain level (dB).



1. Test Button

Click on [Test], it can apply "Gain", "Central Freq" and "Band width" settings, but it has not written to EPROM, only for preview and testing.

2. Gain level range

 $12dB \sim -12dB$

3. Compensation

When enable EQ, the signal will be *attenuated* 5 *dB*. *Compensation can increase overall gain*.

4. Gains of 4 pre-settings mode

4 pre-setting mode for switching, Mode code are Mode 00, Mode 01, Mode 10 and Mode 11.

(Data in the EEPROM that 4 Preset Mode and 5 Band Gain, if EEPROM has no any data, this tool will display the default vlaue.)



■ Treble Bass



1. Disable EQ

Only when "Disable EQ" item is checked to make the Treble Bass is available.

2. Maximum

Gain range of values was determined by the "Maximum" item.

3. Treble and Bass Gain

When the Treble Bass was enabled, the "Band-1" will auto change to "Bass" and the "Band-5" will change to "Treble".



5.6 Record EQ Config Page

Record EQ provides one Mode, Record and Playback has the same way in EQ setting. (Refer to <u>CH 5.5 PlayBack EQ Config Page</u>)

| CM65XX Configuration |
|---|
| USB Config Audio I/O Config MCU Config PlayBack EQ Config Record EQ Config About |
| EQ related setting Disable EQ Test Reset |
| Compensation Band-1 Band-2 Band-3 Band-4 Band-5 Gain (dB) 12.0 12.0 0.0 0.0 0.0 -12.0 |
| |
| Central Freq (Hz) 100 350 1000 3500 13000 Bandwidth (Hz) 70 210 620 2310 5200 |
| Gains of four pre-settings mode 0.0 0.0 0.0 12.0 |

Disable EQ

If this item is checked, all settings on this page will not be written into the EEPROM.



5.7 About

You can find the CM65XX Configuration tool version on this page.

