



EICSS

Embedded Systems

HK336MIC Quick Start Guide

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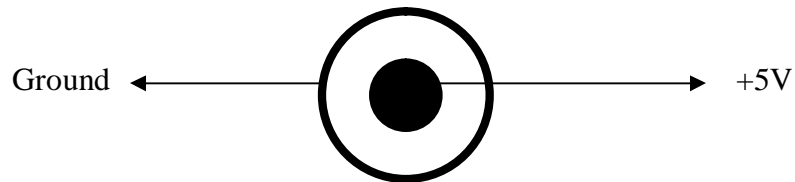
Package contents

- 1- HK336VCP board
- 2- HK336MIC adapter board

Warning: Static charge can permanently damage electronic components if not handled properly

Power supply

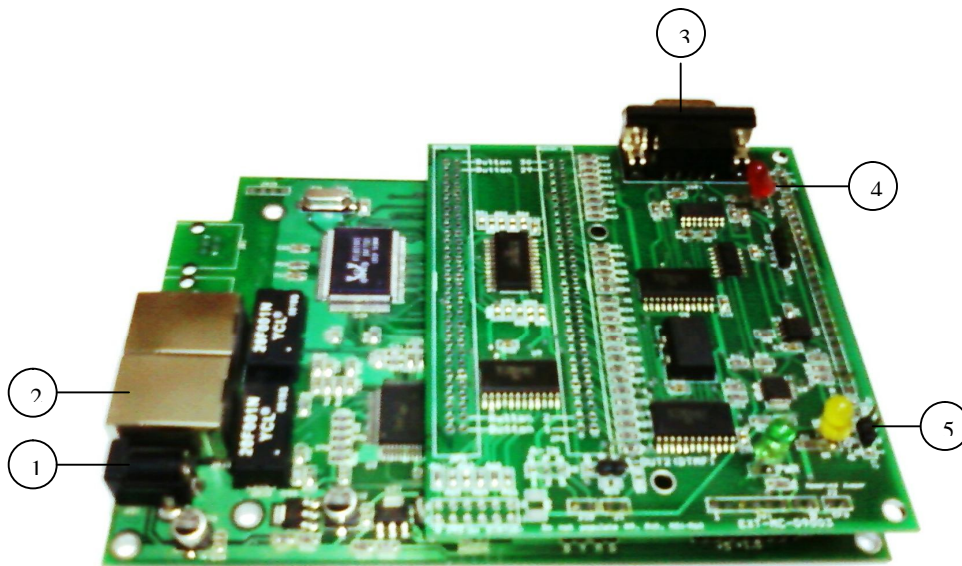
A +5V regulated DC source is required to power up the device. The polarity of the pins on the connector should be as shown in the following figure:



Warning: Hooking up power with opposite polarity can damage the device permanently

Setting up the board

If the two boards are not already assembled, please do so as shown below.



Once the boards have been assembled, different cables can be connected to the board as follows:

- Connect LAN cable to connector 2
- Connect serial cable to connector 3
- Connect audio input to connector 4
- Connect audio output to connector 5
- Connect power adapter to connector 1

Please note that serial cable connection is required only to configure the device. The configuration is described in the following section.

Configuring the device

Before the device can be used, it should first be configured using serial interface. A serial cable (not included) should be connected between the PC and the device. Due to lack of RS232 port in newer computers, a USB serial cable can be used.

Once serial cable is connected, a serial terminal such as Hyper Terminal or PuTTY can be used to configure the device. Following are serial interface settings of the device:

Speed (baud)	115200
Data bits	8
Stop bits	1
Parity	None
Flow control	None

Power-up the device and different messages will be shown followed by command prompt as shown in following image:

Upgrading firmware

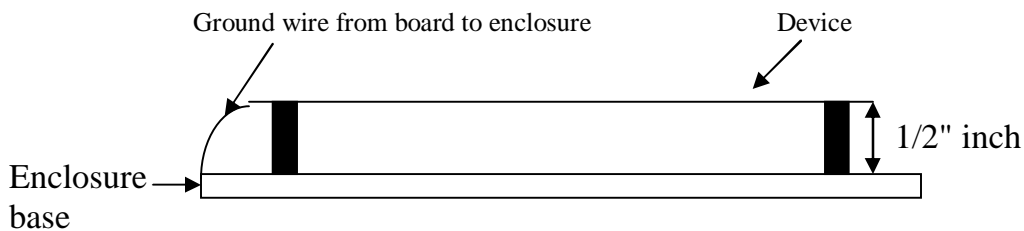
Firmware upgrade is via TFTP and requires TFTP server running on a computer on local network. Recommended TFTP server is 3CDAemon which can be downloaded from here:

<http://support.3com.com/software/3cdv2r10.zip>

Once 3CDAemon is installed and path to folder containing firmware binary is properly set, `loadf` command as described in previous section can be used to upgrade the device to new firmware. New firmware version can be verified by a different firmware build number printed during firmware boot.

Packaging the device

For maximum audio fidelity, the device should be packaged in a metallic enclosure grounded properly. Additionally, the device should be mounted at least $\frac{1}{2}$ inch above the base of enclosure as shown below.



For proper grounding, solder a wire to ground (square shaped) pin of power connector on main board and connect other end to the enclosure.