

# HCS Network Probe

by Michel Clavette

## Description:

This module is a simple RS-485 to RS-232 converter that enables you to look at the messages going around on the HCS II network. It plugs in any of your computer's available COM port. Directions are given here on how to use it with WIN95 HyperTerminal but you can also use it with your favourite terminal software. A sample HyperTerminal configuration file is available for downloading from [www.dsUPER.net/~clavetm/hcs.html](http://www.dsUPER.net/~clavetm/hcs.html).

## Technical specifications:

- Converts RS-485 5V differential signals to RS-232C level signals
- Uses screw-type terminals for RS-485 input and DB-25 or DB-9 connector for RS-232 output
- Designed with commonly available MAX232 and 75176 chips and 78L05 voltage regulator
- Powered by a cheap 7-25V DC @ 100 mA wall-wart transformer
- Expandable to provide automatic half-duplex signal conversion using a simple 555 universal timer chip

## Bill of material:

## Assembly instructions:

## Operation:

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