

# Parallel Port Memory Module Interface



Thanks for purchasing our **Memory Module Interface**! This device is built to operate under the **CMS Version 6.0** software written by Wallace Louie. We've tested it with the Futaba brand **CAMPac 16K Data Storage Module**, as well as our own 16K modules, and it is also said to work with Futaba and aftermarket 64K memory modules. Complete information/downloads on the interface and software is available here: <http://ourworld.compuserve.com/homepages/wallacelouie/cms.htm>. Our interface is built exactly to the given schematics with the addition of a power switch and LED. **Note:** because we did not create the software at hand, we cannot make any claims to its use or integrity, nor can we answer any detailed questions about it. This device should work fine on any Windows 95, 98, or ME machine with a parallel port.

## Instructions:

Included is a black plastic backing that can be attached to the bottom of the interface with hot glue or double sided tape (anything non-conductive); the other side of the plastic can then be glued/taped to a **9v** battery. This will give the interface a sturdy mounting base, and protect the bottom of the circuit. The hot glue bond can be broken should you ever have to replace the battery.

A standard **9v** battery should last plenty long since it only takes a minute to read/write data to/from a memory module, but you can use a different power source (such as a wall transformer) if you like - this may be preferable when using the more power hungry 64K modules. Another **9v**

connector can be used to mate with the existing one. Because our interface has a voltage regulator built in, you can use any DC power source **7-20v**. Be careful not to connect the power backwards.

The included cable should plug onto the 4pin header extending from the back of the interface. Take careful note of the plug orientation as shown in the image to the left - the arrow on the plastic connector housing should face up, and the metal connector pins should be visible through the locking windows in the housing.

Futaba-based memory modules should be plugged into the interface as shown above (**Hansen Hobbies 16K Module**) and left (Futaba brand **CAMPac 16K Data**

**Storage Module**). As a rule of thumb, note which side of the module faces the alignment groove inside the **CAMPac** slot in your radio, and make same side face forward when plugging into the interface. The connectors on Futaba brand modules are hidden deep in the plastic housing, so a 7pin extender is included for use with those modules. Simply plug it on top of the existing 7pin header to give to necessary reach.

Flip on the power switch (LED should turn on), and you're ready to read/write to your memory module using **CMS Version 6.0**.

