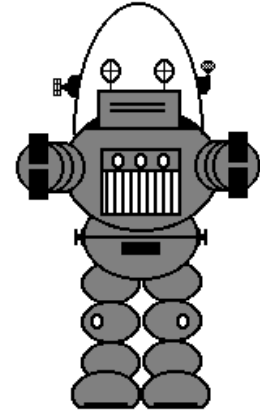


# P.A.R.T.S

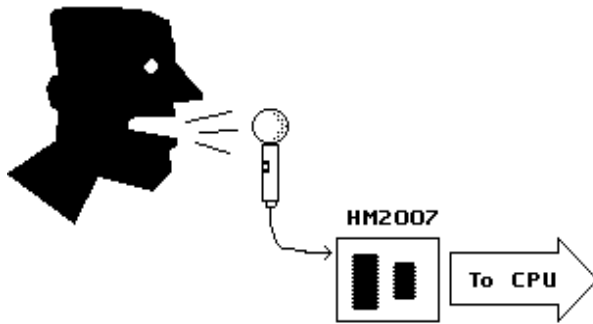


Issue #10      Marvin Green      (503) 666-5907

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## Voice Recognition:

Recently I found a voice recognition product that is perfect for robotic application. The HM2007 is a 48 pin IC that, along with a SRAM chip, allows up to 40 word speech recognition. The HM2007 provides the front end voice recognition processing, and can operate in one of two modes. The stand alone mode uses just a simple keyboard and display, or the CPU mode where the chip is connected to a host CPU.



### General Description:

HM2007 is a single chip CMOS voice recognition LSI circuit with on-chip analog front end, voice analysis, recognition process and system control functions. A 40 word isolated-word voice recognition system can be composed of an external microphone, keyboard, SRAM and a few other components. When combined with a microprocessor, an intelligent recognition system can be built.

The demo board for this chip is being distributed by THE SUMMA GROUP for \$100. The demo board comes complete with a keyboard and display, SRAM, microphone and documentation for the HM2007. The demo board can be switched to CPU mode and it provides a CPU i/o port. \*I understand the HM2007 should be available as a single chip for less than \$30. ( \*call )

The board works reasonably well with the microphone a few inches from your mouth, and an op-amp can be added to increase that distance. Also the board works best with a small vocabulary set. The larger the search vocabulary the more trouble is has distinguishing between words. ( Words such as THREE and GREEN ). This is no problem in CPU mode because you can upload and download word templates in logical groups. Choose your vocabulary carefully.

I have found the demo board allot of fun to play with, and it will make a powerful, and cheap, addition to my next robot project. Anyway why ramble on? Contact THE SUMMA GROUP and have them send you documentation on the HM2007, or order the demo board.

CONTACT: THE SUMMA GROUP LIMITED  
One California Street.  
Suite #1940  
San Francisco, CA 94111  
(415) 288-0390

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## **Internet Access**

Locally in the Portland area, you can get Internet access from Agora. Agora is a public access Unix system that is connected to the Internet via RAINet at 14.4 kbs. Agora provides full usenet access, Email, FTP, Archie, Gopher, Unix Shell, and Telnet access for a small fee of \$6.00 a month, or \$60 a year. Contact Alan Batie at 5627 S.W. 45th, Portland, OR 97221 or dial into Agora at 293-1772.

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## **Radio Shack**

The ISD1000A Voice record/play chip is on sale for \$12.88. Regular price is \$17.99. This chip can store and play back up to 20 seconds of speech. Speech segments can be addressed through an I/O port, recorded and played back. Check you local shack for parts.

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### **FOR SALE** ( or trade...)

386 DX Mother Board 25 Mhz. OPTI chip set. 0k RAM \$30.00  
Supra 40meg SCSI Hard Drive, with Amiga 500 Interface. \$50.00  
Contact Marvin at 666-5907