

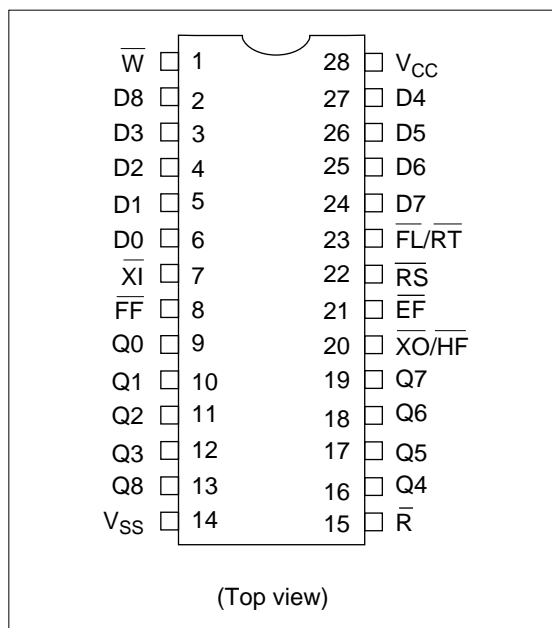
# HM63921 Series

## 2048-word × 9-bit CMOS Parallel In-Out FIFO Memory

The HM63921 is a first-in, first-out memory that utilizes a high performance static RAM array with internal algorithm that controls, monitors and declares status of the memory by empty flag, full flag and half-full flag, to prevent data overflow or underflow.

Expansion logic warrants unlimited expansion capability in width and depth. Both read and write are independent from each other and their corresponding pointers are designed to select the proper locations out of the entire array serially without address information to load or unload data. Data is toggled in and out of the device through the use of the write enable ( $\overline{W}$ ) and read enable ( $\overline{R}$ ) pins. The device has a read/write cycle time of 30/35/45 ns. Organization of HM63921 provides a 9-bit data bus. The ninth bit could be used for control or parity for error checking at the option of the user. The HM63921 is fabricated using the Hitachi CMOS 1.3 micron technology. The device is available in DIP and SOJ.

### Pin Arrangement



### Features

- First-in, first-out dual port memory
- 2 k × 9 organization
- Low-power CMOS 1.3 micron technology
- Asynchronous and simultaneous read and write
- Fully expandable in depth and/or width
- Single 5 V power supply
- Empty and full warning flags
- Half-full flag
- Access time: 22/25/35 ns
- Package: 300-mil 28-pin plastic DIP package  
300-mil 28-pin plastic SOJ package

### Ordering Information

Type name	Access time	Package
HM63921P-20R	22 ns	300-mil 28-pin plastic DIP (DP-28NA)
HM63921P-25	25 ns	
HM63921P-35	35 ns	
HM63921JP-20R	22 ns	300-mil 28-pin plastic SOJ (CP-28DN)
HM63921JP-25	25 ns	
HM63921JP-35	35 ns	



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“Searchdatasheets provides users with one of the Internet’s most complete sources for obsolete datasheets,” said Ariel Zriel, President, Market Maker Systems.

As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

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Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

“We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site,” said Zriel. “We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design.”

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