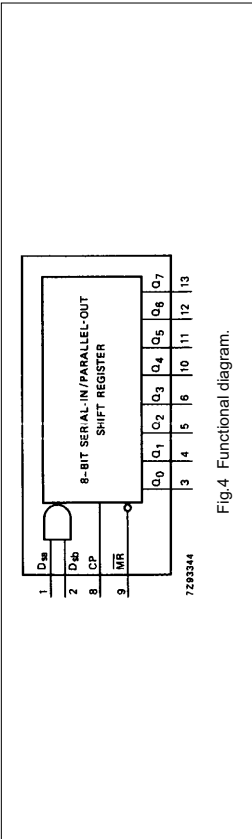


8-bit serial-in/parallel-out shift register

74HC/HCT164



APPLICATIONS

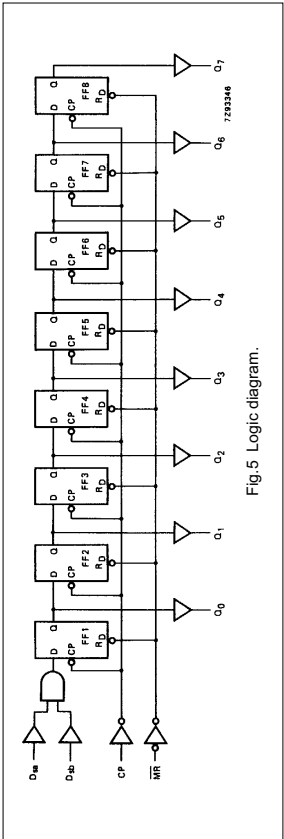
- Serial data transfer

FUNCTION TABLE

OPERATING MODES	INPUTS				OUTPUTS	
	MR	CP	D _{sa}	D _{sb}	Q ₀	Q ₁ - Q ₇
reset (clear)	L	X	X	X	L	L - L
shift	H	↑	L	L	L	Q ₀ - Q ₆
	H	↑	L	h	L	Q ₀ - Q ₆
	H	↑	h	L	L	Q ₀ - Q ₆
	H	↑	h	h	H	Q ₀ - Q ₆

Note

- H = HIGH voltage level
h = HIGH voltage level one set-up time prior to the LOW-to-HIGH clock transition
L = LOW voltage level
l = LOW voltage level one set-up time prior to the LOW-to-HIGH clock transition
q = lower case letters indicate the state of the referenced input one set-up time prior to the LOW-to-HIGH clock transition
↑ = LOW-to-HIGH clock transition



DATA SHEET

For a complete data sheet, please also download:

- The IC06 74HC/HCT/HCU/HCMOS Logic Family Specifications
- The IC06 74HC/HCT/HCU/HCMOS Logic Package Information
- The IC06 74HC/HCT/HCU/HCMOS Logic Package Outlines

74HC/HCT164 8-bit serial-in/parallel-out shift register

Product specification
File under Integrated Circuits, IC06

December 1990



8-bit serial-in/parallel-out shift register

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PIN DESCRIPTION

PIN NO.	SYMBOL	NAME AND FUNCTION
1, 2	D_{sa}, D_{sb}	data inputs
3, 4, 5, 6, 10, 11, 12, 13	Q_0 to Q_7	outputs
7	GND	ground (0 V)
8	CP	clock input (LOW-to-HIGH, edge-triggered)
9	\overline{MR}	master reset input (active LOW)
14	V_{CC}	positive supply voltage

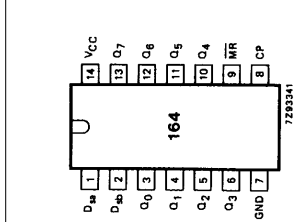


Fig.1 Pin configuration.

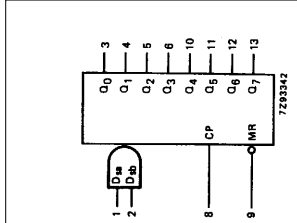


Fig.2 Logic symbol.

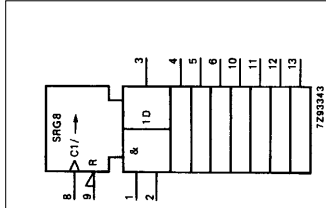


Fig.3 IEC logic symbol.