ADVANCE INFORMATION



54ACT/74ACT2726 512 x 9 Bidirectional First In, First Out Memory (BIFIFO)

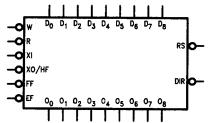
General Description

The 512 x 9 FIFO is a first-in, first-out dual port memory capable of asynchronous, simultaneous read and write. Other important features are: expansion capability in both the word depth and bit width, half-full flag capability in the single device mode, empty and full warning flags, and ring pointers for zero fall-through time. There are two sets of bidirectional ports, each 9 bits wide, through which data flow can be controlled. A direction pin (DIR) controls the direction of the data: when the DIR is HIGH, A is the input port and B is the output port. When the DIR is LOW, the input port is B and output port is A. It is suited for high-speed applications.

Features

- First-in, first-out bidirectional memory
- 512 x 9 organization
- Low power consumption
- Asynchronous and simultaneous read and write
- Fully expandable by word depth and/or bit width
- Half-full flag capability in single device mode
- Master/slave multiprocessing applications
 Bidirectional and rate buffer applications
- Empty and full warning flags
- Outputs source/sink 8 mA
- 'ACT2726 has TTL-compatible inputs

Logic Symbol



TL/F/10656-1

Pin Names	Description	
D ₀ -D ₈	Data Inputs	
D ₀ -D ₈ O ₀ -O ₈	Data Outputs	
₩	Write Enable	
F	Read Enable	
XI	Expansion In	
XO/HF	Expansion Out, Half-Full Flag	
EF	Empty Flag	
FF	Full Flag	
RS	Reset	
DIR	Direction	

Connection Diagram

Pin Assignment for DiP. Flatpak and SOIC

			•
₩—	1	28	-v _{cc}
08-	2	27	-D ₄
D ₃ —	3	26	—⊅ ₅
D ₂ —	4	25	− 06
D,-	5	24	⊢ ₽ ₇
D ₀ -	6	23	DIR
XI-	7	22	— RS
řř–	8	21	⊷ ĔĒ
₀ −	9	20	⊢ xo/π
0,-	10	19	⊢ 0 ₇
02-	11	18	—о _б
03-	12	17	− 0 ₅
08	13	16	⊢ 0₄
ND —	14	15	⊢ Ā
			J

TL/F/10656-2