



PRODUCT NAME : 74LS10 Triple-3-Input NAND Gate

PRICE : Rs 35.00
SKU : RM0043

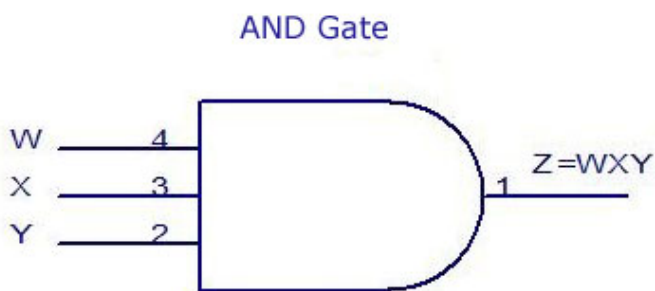


DESCRIPTION

The 74LS10 Triple-3-Input NAND Gate contains three independent gates each of which performs the logic AND function. 74LS10 Triple-3-Input NAND Gate IC can be soldered directly to the circuit board or can be mounted on a 14 pin IC base. The 74LS10 Triple-3-Input NAND Gate circuit is designed such that the AND operation of the input pins 1,2 & 13, 3, 4&5, 9,10 & 11 are produced on the pin 12,6& 8 respectively. Operating supply voltages to the IC can vary between 4.75V to 5V and to a maximum of 5.5V and the input logic levels to the device in '0'(LOW) state is max. 0.7V and for '1'(HIGH) state is min 2V. .

Images/Pinout of 74LS10 Triple-3-Input NAND Gate

3 Input AND Gate



TRUTH TABLE

INPUTS			OUTPUT
W	X	Y	Z
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

Features of 74LS10 Triple-3-Input NAND Gate:

- Operating Voltage Range 4.75V to 5V up to a maximum of 5.5V.
- Operating Temperature range : -55°C to +125°C.
- VH (Output High): 2.7V to 3.4V.
- VL (Output Low): 0.36V to 0.5V.
- Power Consumption: 4.8mA to 8.8mA.
- Operating Speed (Mhz): 125 – 250.

Applications of 74LS10 Triple-3-Input NAND Gate:

- Logical Decision making.
- Circuits involving conditional operations.
- DIY projects for various logic gates based applications

ADDITIONAL IMAGES

