

CD54HC138F3A

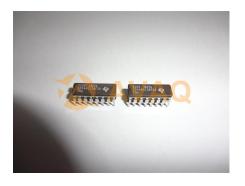
Decoder/Demultiplexer Single 3-to-8 16-Pin CDIP Tube

Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: CDIP16

Product Type: Logic ICs

Lifecycle: Active



Images are for reference only

Inquiry

General Description

The 'HC138, 'HC238, 'HCT138, and 'HCT238 are high speed silicon gate CMOS decoders well suited to memory address decoding or data routing applications. Both circuits feature low power consumption usually associated with CMOS circuitry, yet have speeds comparable to low power Schottky TTL logic. Both circuits have three binary select inputs (A0, A1 and A2). If the device is enabled, these inputs determine which one of the eight normally high outputs of the HC/HCT138 series will go low or which of the normally low outputs of the HC/HCT238 series will go high.

Two active low and one active high enables (E1\, E2\, and E3) are provided to ease the cascading of decoders. The decoder's 8 outputs can drive 10 low power Schottky TTL equivalent loads.

Key Features

Select One Of Eight Data Outputs Active Low for 138, Active High for 238

I/O Port or Memory Selector

Three Enable Inputs to Simplify Cascading

Typical Propagation Delay of 13ns at VCC = 5V, CL = 15pF, TA = 25°C

Fanout (Over Temperature Range)

Standard Outputs 10 LSTTL Loads

Bus Driver Outputs 15 LSTTL Loads

Wide Operating Temperature Range . . . -55°C to 125°C

Balanced Propagation Delay and Transition Times

Significant Power Reduction Compared to LSTTL Logic ICs

HC Types

2V to 6V Operation

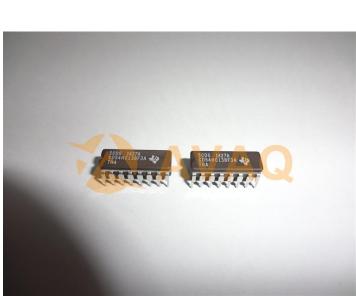
High Noise Immunity: NIL = 30%, NIH = 30% of VCC at VCC = 5V

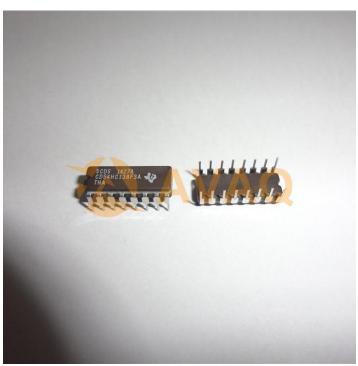
HCT Types

4.5V to 5.5V Operation

Direct LSTTL Input Logic Compatibility, VIL = 0.8V (Max), VIH = 2V (Min)

CMOS Input Compatibility, Il1 μA at VOL, VOH





Recommended For You

CD4070BE

Texas Instruments, Inc

DIP14

CD74HCT138E

Texas Instruments, Inc

DIP16

CD4098BE

Texas Instruments, Inc

DIP

CD74HC08E

Texas Instruments, Inc

DIP

CD74HC4075E

Texas Instruments, Inc

DIP

CD74ACT74E

Texas Instruments, Inc

DIP-14

CD74HC75E

Texas Instruments, Inc

DIP

CD4504BE

Texas Instruments, Inc

DIP16

CD4068BE

Texas Instruments, Inc

DIP

CD4081BE

Texas Instruments, Inc

DIP14

CD4001BE

Texas Instruments, Inc

DIP14

CD4512BE

Texas Instruments, Inc

DIP16

CD4069UBE

Texas Instruments, Inc

DIP14

CD74HCT151E

Texas Instruments, Inc

DIP

CD74HC04M

Texas Instruments, Inc

SOP14