HD3-6409-9

Data Sheet

Pb-Free w/Anneal MANCHESTER 1MHZ

Manufacturers	Renesas Technology Corp
Package/Case	DIP-20
Product Type	Surge Suppression ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for HD3-6409-9 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The HD-6409/883 Manchester Encoder-Decoder (MED) is a high speed, low power device manufactured using selfaligned silicon gate technology. The device is intended for use in serial data communication, and can be operated in either of two modes. In the converter mode, the MED converts Nonreturn-to-Zero code (NRZ) into Manchester code and decodes Manchester code into Nonreturn-to-Zero code. For serial data communication, Manchester code does not have some of the deficiencies inherent in Nonreturn-to-Zero code. For instance, use of the MED on a serial line eliminates DC components, provides clock recovery, and gives a relatively high degree of noise immunity. Because the MED converts the most commonly used code (NRZ) to Manchester code, the advantages of using Manchester code are easily realized in a serial data link. In the Repeater mode, the MED accepts Manchester code input and reconstructs it with a recovered clock. This minimizes the effects of noise on a serial data link. A digital phase lock loop generates the recovered clock. A maximum data rate of 1MHz requires only 50mW of power. Manchester code is used in magnetic tape recording and in fiber optic communication, and generally is used where data accuracy is imperative. Because it frames blocks of data, the HD-6409/883 easily interfaces to protocol controllers.

Features

Converter or Repeater Mode

Independent Manchester encoder and decoder operation

Static to 1Mbps data rate ensured

Low bit error rate

Digital PLL clock recovery

On-chip oscillator

Low operating power: 50mW Typical at +5V

Pb-Free (RoHS Compliant)

Related Products

HD74HC245P

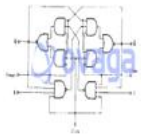
Renesas Technology Corp

DIP-20

HD74HC244P

Renesas Technology Corp

DIP-20



HD74LS112P

Renesas Technology Corp

DIP-16

HD74LS10P

Renesas Technology Corp

DIP14

HD74LS138P

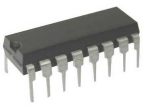
Renesas Technology Corp

DIP-16

HD74HC164P

Renesas Technology Corp

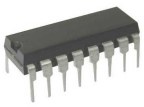
DIP-14



HD74LS192P

Renesas Technology Corp

DIP16



HD74HC138P

Renesas Technology Corp

DIP-16