

Quadrature Clock Converter -20°C to 85°C 8-Pin SOIC

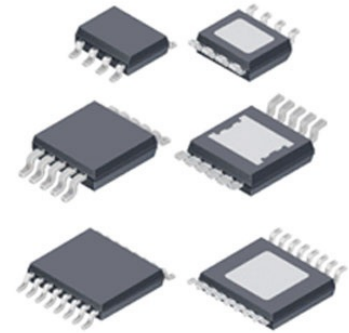
Manufacturer: [LSI Computer Systems](#)

Package/Case: SOIC

Product Type: Logic ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The LS7184N-S is designed to interface with incremental encoders, commonly used in various motion control and positioning applications. It provides the ability to accurately track the position and movement of a rotating shaft or linear motion, enabling precise motor control and feedback in motion control systems.

Key Features

Quadrature Inputs: The LS7184N-S supports quadrature inputs, which are commonly used in incremental encoders. Quadrature signals consist of two phase-shifted square wave signals (A and B channels), which help determine the direction of rotation and the number of counts.

Index Input: The IC may also feature an index input, which corresponds to a reference point in the encoder's signal cycle. It allows the system to reset the count to a known position when the index signal is detected.

High-Speed Operation: It is designed to operate at high speeds, making it suitable for applications with fast-moving or high-resolution encoders.

Differential Inputs: The IC typically offers differential inputs, which provide better noise immunity and signal integrity, particularly in noisy environments.

Quadrature Counting: It performs quadrature counting, allowing the IC to count both the rising and falling edges of the A and B channel signals, providing precise position information.

Application

Robotics

CNC
Machines

Motor
Control

Industrial
Automation

Position
Measurement

Recommended For You

LS7084N

LSI Computer Systems

DIP

LS7366R-TS

LSI Computer Systems

TSSOP

LS7083N

LSI Computer Systems

DIP

LS7166A-S

LSI Computer Systems

SOIC

LS7083N-S

LSI Computer Systems

SOIC

LS7166A

LSI Computer Systems

DIP