

LTC4306IUFD#PBF

Data Sheet

4-Channel, 2-Wire Bus Multiplexer with Capacitance Buffering; Package: QFN; No of Pins: 24; Temperature Range: -40°C to +85°C

Manufacturers

Analog Devices, Inc

Package/Case

QFN-24

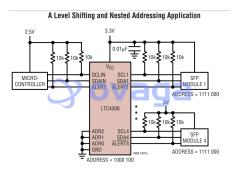
Product Type

Interface ICs

RoHS

Pb-free Halide free

Lifecycle



Images are for reference only

Please submit RFQ for LTC4306IUFD#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The LTC4306 is a 4-channel, 2-wire bus multiplexer with bus buffers to provide capacitive isolation between the upstream bus and downstream buses. Through software control, the LTC4306 connects the upstream 2-wire bus to any desired combination of downstream buses. Each channel can be pulled up to a supply voltage ranging from 2.2V to 5.5V, independent of the LTC4306 supply voltage. The downstream channels are also provided with ALERT1-ALERT4 inputs for fault reporting.

Programmable timeout circuitry disconnects the downstream buses if the bus is stuck low. When activated, rise time accelerators source currents into the 2-wire bus pins to reduce rise time. Driving the ENABLE pin low restores all features to their default states. Three address pins provide 27 distinct addresses.

The LTC4306 is available in 24-lead QFN (4mm × 5mm) and SSOP packages.

Features

1:4 2-Wire Multiplexer/Switch

Connect SDA and SCL Lines with 2-Wire Bus Commands

Supply Independent Bidirectional Buffer for SDA and SCL Lines Increases Fan-Out

Programmable Disconnect from Stuck Bus

Compatible with I2C and SMBus Standards

Rise Time Accelerator Circuitry

SMBus Compatible ALERT Response Protocol

Two General Purpose Inputs-Outputs

Prevents SDA and SCL Corruption During Live Board

Insertion and Removal from Backplane

24-Lead QFN (4mm × 5mm) and SSOP Packages

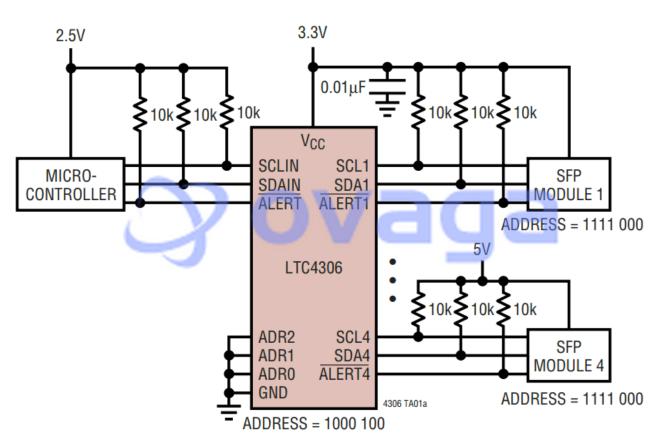
Application

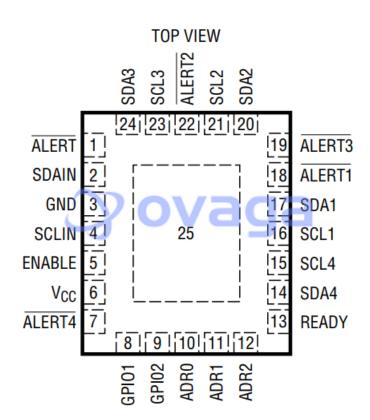
Nested Addressing

5V/3.3V Level Translator

Capacitance Buffer/Bus Extender

A Level Shifting and Nested Addressing Application





Related Products



LTC4300A-1IMS8#PBF

Analog Devices, Inc MSOP8



LTC2870IFE#PBF

Analog Devices, Inc TSSOP28



LTC6820HMS#PBF

Analog Devices, Inc MSOP-16



LTC2854HDD#PBF

Analog Devices, Inc QFN-10



LTC2870IUFD#PBF

Analog Devices, Inc 28-QFN



LTC6820IMS#PBF

Analog Devices, Inc MSOP16



LTM2881IV-3#PBF

Analog Devices, Inc LGA32



LTC2852IDD#PBF

Analog Devices, Inc DFN10