

Clock Fanout Buffer 4-OUT 1-IN 1:4 24-Pin LFCSP EP Tray

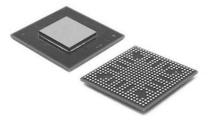
Manufacturer: <u>Analog Devices, Inc</u>

Package/Case: LFCSP-24

Product Type: Drivers

RoHS: RoHS Compliant/Lead free RoHS

Lifecycle: Active



Images are for reference only

Inquiry

General Description

The AD9508 provides clock fanout capability in a design that emphasizes low jitter to maximize system performance. This device benefits applications like clocking data converters withdemanding phase noise and low jitter requirements.

There are four independent differential clock outputs, each withvarious types of logic levels available. Available logic typesinclude LVDS (1.65 GHz), HSTL (1.65 GHz), and 1.8 V CMOS(250 MHz). In 1.8 V CMOS output mode, the differential output becomes two CMOS single-ended signals. The CMOS outputsare 1.8 V logic levels, regardless of the operating supply voltage.

Each output has a programmable divider that can be bypassed be set to divide by any integer up to 1024. In addition, the AD9508 supports a coarse output phase adjustment between the outputs.

The device can also be pin programmed for various fixedconfigurations at power-up without the need for SPI or I2C programming.

The AD9508 is available in a 24-lead LFCSP and operates from either a single 2.5 V or 3.3 V supply. The temperature range is-40°C to +85°C.

Key Features

1.65 GHz differential clock inputs/outputs

10-bit programmable dividers, 1 to 1024, all integers

Up to 4 differential outputs or 8 CMOS outputs

Pin strapping capability for hardwired programming at power-up

Additive output jitter: 41 fs rms typical (12 kHz to 20 MHz)

Excellent output-to-output isolation

Automatic synchronization of all outputs

Single 2.5 V/3.3 V power supply

Internal LDO (low drop-out) voltage regulator for enhanced power supply immunity

Phase offset select for output-to-output coarse delay adjust

3 programmable output logic levels, LVDS, HSTL, and CMOS

Serial control port (SPI/I2C) or pin-programmable mode

Space-saving 24-lead LFCSP

AD9508-EP supports defense and aerospace applications (AQEC standard)

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Extended temperature range: -55°C to +105°C

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

V62/13626 DSCC Drawing Number

Application

Low jitter, low phase noise clock distribution

Clocking high speed ADCs, DACs, DDSs, DDCs, DUCs, MxFEs

High performance wireless transceivers

High performance instrumentation

Broadband infrastructure

Recommended For You

AD9517-3ABCPZ AD954YSV ADCLK914BCPZ-WP

Analog Devices, Inc Analog Devices, Inc Analog Devices, Inc

QFN QFP LFCSP-16

AD7008JP50 AD9952YSV AD9516-3BCPZ

Analog Devices, Inc Analog Devices, Inc Analog Devices, Inc

PLCC44 QFP QFN

ADCLK944BCPZ-R2

Analog Devices, Inc

LFCSP16

27 CO1 10

AD9853AS

Analog Devices, Inc

QFP

ADN2807ACPZ

Analog Devices, Inc

48-LFCSP

AD9577BCPZ

Analog Devices, Inc

LFCSP-40

ADN2805ACPZ

Analog Devices, Inc

LFCSP

AD9520-4BCPZ

Analog Devices, Inc

LFCSP

AD9543BCPZ

Analog Devices, Inc

LFCSP-48

AD9515BCPZ-REEL7

Analog Devices, Inc

LFCSP-32

AD9831AST

Analog Devices, Inc

QFP