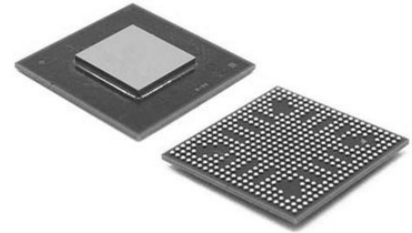


12 LVDS/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO ...

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP-64
Product Type	Clock & Timer ICs
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for AD9522-4BCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD9522 serial interface supports both SPI and I2C® ports. An in-package EEPROM can be programmed through the serial interface and store user-defined register settings for power-up and chip reset.

The AD9522 features 12 LVDS outputs in four groups. Any of the 800 MHz LVDS outputs can be reconfigured as two 250 MHz CMOS outputs.

Each group of outputs has a divider that allows both the divider ratio (from 1 to 32) and the phase (coarse delay) to be set.

The AD9522 is available in a 64-lead LFCSP and can be operated from a single 3.3 V supply. The external VCO can have an operating voltage up to 5.5 V.

The AD9522 is specified for operation over the standard industrial range of -40°C to +85°C.

The AD9520-4 is an equivalent part to the AD9522-4 featuring LVPECL / CMOS drivers instead of LVDS / CMOS drivers.

1 The AD9522 is used throughout this data sheet to refer to all the members of the AD9522 family. However, when AD9522-4 is used, it is referring to that specific member of the AD9522 family.

## Features

Low phase noise, phase-locked loop (PLL)

On-chip VCO tunes from 1.4 GHz to 1.8 GHz

Supports external 3.3 V/5 V VCO/VCXO to 2.4 GHz

1 differential or 2 single-ended reference inputs

Accepts CMOS, LVPECL, or LVDS references to 250 MHz

Accepts 16.62 MHz to 33.3 MHz crystal for reference input

Optional reference clock doubler

See Data Sheet for Additional Information

## Application

Low jitter, low phase noise clock distribution

Clock generation and translation for SONET, 10Ge, 10G FC, and other 10 Gbps protocols

Forward error correction (G.710)

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

High performance wireless transceivers

ATE and high performance instrumentation

Broadband infrastructures

Data Sheet, Rev. 0, 10/08

## Related Products



### [ADF4350BCPZ](#)

Analog Devices, Inc  
LFCSP-32



### [AD9516-4BCPZ](#)

Analog Devices, Inc  
LFCSP64



### [ADF4111BRUZ](#)

Analog Devices, Inc  
TSSOP-16



### [ADF4113BRUZ](#)

Analog Devices, Inc  
TSSOP-16



### [ADF4116BRUZ](#)

Analog Devices, Inc  
TSSOP-16



### [ADF4110BRUZ](#)

Analog Devices, Inc  
TSSOP-16



### [ADF4193BCPZ](#)

Analog Devices, Inc  
LFCSP-32



### [AD2S99BPZ](#)

Analog Devices, Inc  
PLCC-20