
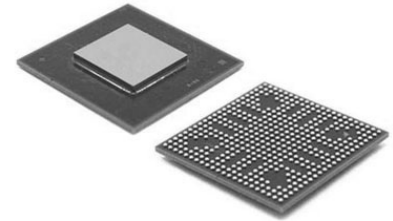


## Clock Divider Buffer 2-OUT 1-IN 1:2 32-Pin LFCSP EP Tray

<b>Manufacturer:</b>	<u>Analog Devices, Inc</u>
<b>Package/Case:</b>	LFCSP
<b>Product Type:</b>	Drivers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

Inquiry

### General Description

The AD9515 features a two-output clock distribution IC in a design that emphasizes low jitter and phase noise to maximize data converter performance. Other applications with demanding phase noise and jitter requirements also benefit from this part.

There are two independent clock outputs. One output is LVPECL, while the other output can be set to either LVDS or CMOS levels. The LVPECL output operates to 1.6 GHz. The other output operates to 800 MHz in LVDS mode and to 250 MHz in CMOS mode.

Each output has a programmable divider that can be set to divide by a selected set of integers ranging from 1 to 32. The phase of one clock output relative to the other clock output can be set by means of a divider phase select function that serves as a coarse timing adjustment.

The LVDS/CMOS output features a delay element with three selectable full-scale delay values (1.5 ns, 5 ns, and 10 ns), each with 16 steps of fine adjustment.

The AD9515 does not require an external controller for operation or setup. The device is programmed by means of 11 pins (S0 to S10) using 4-level logic.

The programming pins are internally biased to  $\frac{1}{3}$  VS. The VREF pin provides a level of  $\frac{2}{3}$  VS. VS (3.3 V) and GND (0 V) provide the other two logic levels.

The AD9515 is ideally suited for data converter clocking applications where maximum converter performance is achieved by encode signals with subpicosecond jitter.

The AD9515 is available in a 32-lead LFCSP and operates from a single 3.3 V supply. The temperature range is  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

### Key Features

- Integrated PLL
- Multiple clock outputs
- Low skew between outputs
- Configurable dividers
- Programmable output strength
- Wide operating frequency range

### Application

- Telecommunication and networking systems
- Data acquisition systems
- High-speed data converters (ADCs/DACs)
- Instrumentation and test equipment
- Radar and satellite communication systems

### AD9515BCPZ Equivalent part numbers

- LMK00301
- SI5338
- 8T49N240

## Recommended For You

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### **AD9517-3BCPZ**

Analog Devices, Inc  
QFN

### **AD9954YSV**

Analog Devices, Inc  
QFP

### **ADCLK914BCPZ-WP**

Analog Devices, Inc  
LFCSP-16

### **AD7008JP50**

Analog Devices, Inc  
PLCC44

### **AD9952YSV**

Analog Devices, Inc  
QFP

### **AD9516-3BCPZ**

Analog Devices, Inc  
QFN

### **ADCLK944BCPZ-R2**

Analog Devices, Inc  
LFCSP16

### **AD9577BCPZ**

Analog Devices, Inc  
LFCSP-40

### **AD9543BCPZ**

Analog Devices, Inc  
LFCSP-48

### **AD9853AS**

Analog Devices, Inc  
QFP

### **ADN2805ACPZ**

Analog Devices, Inc  
LFCSP

### **AD9515BCPZ-REEL7**

Analog Devices, Inc  
LFCSP-32

### **ADN2807ACPZ**

Analog Devices, Inc  
48-LFCSP

### **AD9520-4BCPZ**

Analog Devices, Inc  
LFCSP

### **AD9831AST**

Analog Devices, Inc  
QFP