


Clock Fanout Buffer 10-OUT 2-IN 1:10 32-Pin VQFN EP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	VQFN32
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The CDCLVC1310 is a highly versatile, low-jitter, low-power clock fanout buffer which can distribute to ten low-jitter LVCMOS clock outputs from one of three inputs, whose primary and secondary inputs can feature differential or single-ended signals and crystal input. Such a buffer is good for use in a variety of mobile and wired infrastructure, data communication, computing, low-power medical imaging, and portable test and measurement applications. When the input is an illegal level, the output is at a defined state. One can set the core to 2.5 V or 3.3 V, and output to 1.5 V, 1.8 V, 2.5 V or 3.3 V. Pin programming easily configures the CDCLVC1310. The overall additive jitter performance is 25 fsRMS (typical). The CDCLVC1310 comes in a small 32-pin 5-mm × 5-mm QFN package.

Key Features

High-Performance Crystal Buffer With Ultralow Noise Floor of -169 dBc/Hz

Additive Phase Noise/Jitter Performance Is 25fsRMS (Typ.)

Level Translation With 3.3-V or 2.5-V Core and 3.3-V, 2.5-V, 1.8-V, or 1.5-V Output Supply

Device inputs consist of primary, secondary, and crystal inputs, and manually selectable (through pins) using the input MUX. The primary and secondary inputs can accept LVPECL, LVDS, HCSL, SSTL or LVCMOS signals and crystal input.
Crystal Frequencies Supported Are From 8MHz to 50MHz

Differential and Single-Ended Input Frequencies Supported Are up to 200 MHz

10 Single-Ended LVCMOS Outputs. The outputs can operate at 1.5-V, 1.8-V, 2.5-V or 3.3-V Power-Supply Voltage.
LVCMOS Outputs Operate up to 200 MHz

Output Skew Is 30 ps (Typical)

Total Propagation Delay Is 2 ns (Typical)

Synchronous and Glitch-Free Output Enable Is Available

Offered in QFN-32 5-mm × 5-mm Package With Industrial Temperature Range of -40°C to 85°C

Can Overdrive Crystal Input With LVCMOS Signal up to 50 MHz

Recommended For You

CD4541BE

Texas Instruments, Inc
DIP14

CDCV304PW

Texas Instruments, Inc
TSSOP8

CDCV857ADGGR

Texas Instruments, Inc
TSSOP48

CDCV304PWR

Texas Instruments, Inc
TSSOP8

CDCVF2505PWR

Texas Instruments, Inc
TSSOP8

CDCE937PW

Texas Instruments, Inc
TSSOP20

CDCVF2310PWR

Texas Instruments, Inc
TSSOP24

CDCE62002RHBT

Texas Instruments, Inc
VQFN-32

CDCLVP110VF

Texas Instruments, Inc
QFP32

CDCLVD110ARHBT

Texas Instruments, Inc
VQFN-32

CDCDB803RSLR

Texas Instruments, Inc
VQFN-48

CDCP1803RGET

Texas Instruments, Inc
VQFN-24

CDCEL925PW

Texas Instruments, Inc
TSSOP16

CDCLVC1102PW

Texas Instruments, Inc
TSSOP8

CDCLVD1212RHAR

Texas Instruments, Inc
VQFN40