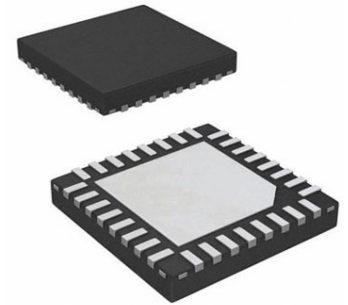


## Clock Fanout Buffer 4-OUT 3-IN 1:4 Automotive 32-Pin WQFN EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** WQFN-32

**Product Type:** Drivers

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The LMK00334 -Q1 device is a 4-output HCSL fanout buffer intended for high-frequency, low-jitter clock, data distribution, and level translation. It is capable of distributing the reference clock for ADCs, DACs, multi-gigabit ethernet, XAUI, fibre channel, SATA/SAS, SONET/SDH, CPRI, and high-frequency backplanes.

The input clock can be selected from two universal inputs or one crystal input. The selected input clock is distributed to two banks of two HCSL outputs and one LVCMOS output. The LVCMOS output has a synchronous enable input for runt-pulse-free operation when enabled or disabled. The LMK00334 -Q1 operates from a 3.3-V core supply and three independent 3.3-V or 2.5-V output supplies.

The LMK00334 -Q1 provides high performance, versatility, and power efficiency, making it ideal for replacing fixed-output buffer devices while increasing timing margin in the system.

## Key Features

AEC-Q100 Qualified for Automotive Applications:

Device Temperature Grade 2: -40°C to 105°C Ambient Operating Temperature Range

Device HBM ESD Classification Level 2

Device CDM ESD Classification Level C5

Device MM ESD Classification Level M2

3:1 Input multiplexer

Two universal inputs operate up to 400 MHz and accept LVPECL, LVDS, CML, SSTL, HSTL, HCSL, or single-ended clocks

One crystal input accepts a 10- to 40-MHz crystal or single-ended clock

Two banks with two differential outputs each  
HCSL, or Hi-Z (selectable)

Additive RMS phase jitter for PCIe Gen3/Gen4 at 100 MHz:  
30 fs RMS (typical)

High PSRR: -72 dBc at 156.25 MHz

LVC MOS output with synchronous enable input

Pin-controlled configuration

V<sub>CC</sub> core supply: 3.3 V ± 5%

Three independent V<sub>CCO</sub> output supplies: 3.3 V, 2.5 V ± 5%

Industrial temperature range: -40°C to +105°C

32-pin WQFN (5 mm × 5 mm)

## Recommended For You

---

### LMK00334RTVR

Texas Instruments, Inc

WQFN32

### LMC555CM

Texas Instruments, Inc

SOP8

### LM555CM

Texas Instruments, Inc

SOP8

### LMC555CMX/NOPB

Texas Instruments, Inc

SOP8

### LM555CN

Texas Instruments, Inc

DIP8

### LM555J/883

Texas Instruments, Inc

CDIP8

### LMC555CMMX

Texas Instruments, Inc

MSOP8

### LM555CN/NOPB

Texas Instruments, Inc

DIP8

### LMC555CMMX/NOPB

Texas Instruments, Inc

VSSOP8

**LMK00101SQE/NOPB**

Texas Instruments, Inc

WQFN32

**LM555H/883**

Texas Instruments, Inc

CAN

**LMK1C1102DQFR**

Texas Instruments, Inc

WSON-8

**LMC555CN**

Texas Instruments, Inc

DIP

**LMC555IMX/NOPB**

Texas Instruments, Inc

SOP8

**LMC555CTP**

Texas Instruments, Inc

DSBGA