

# High-Performance Single-Ended Clock Buffer (CTB2110)

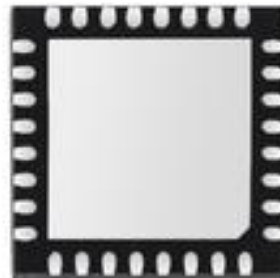
## Description

California Triangle provides high-performance, low-noise single-ended clock buffers for communication, radar, measurement, and industrial control fields. This buffer can distribute 10 channels of ultra-low jitter clocks from single-ended, differential, or crystal inputs. It supports glitch-free pulse operation for synchronized output. Ultra-low skew, low noise, and high power supply rejection ratio (PSRR) make this buffer very suitable for various network interconnections, such as telecommunications, server, and storage area network interconnections, RRU Lo reference distribution, medical, and testing equipment applications. Additional jitter is a maximum of 30fs.

## Product view



**CTB2110 Front View**



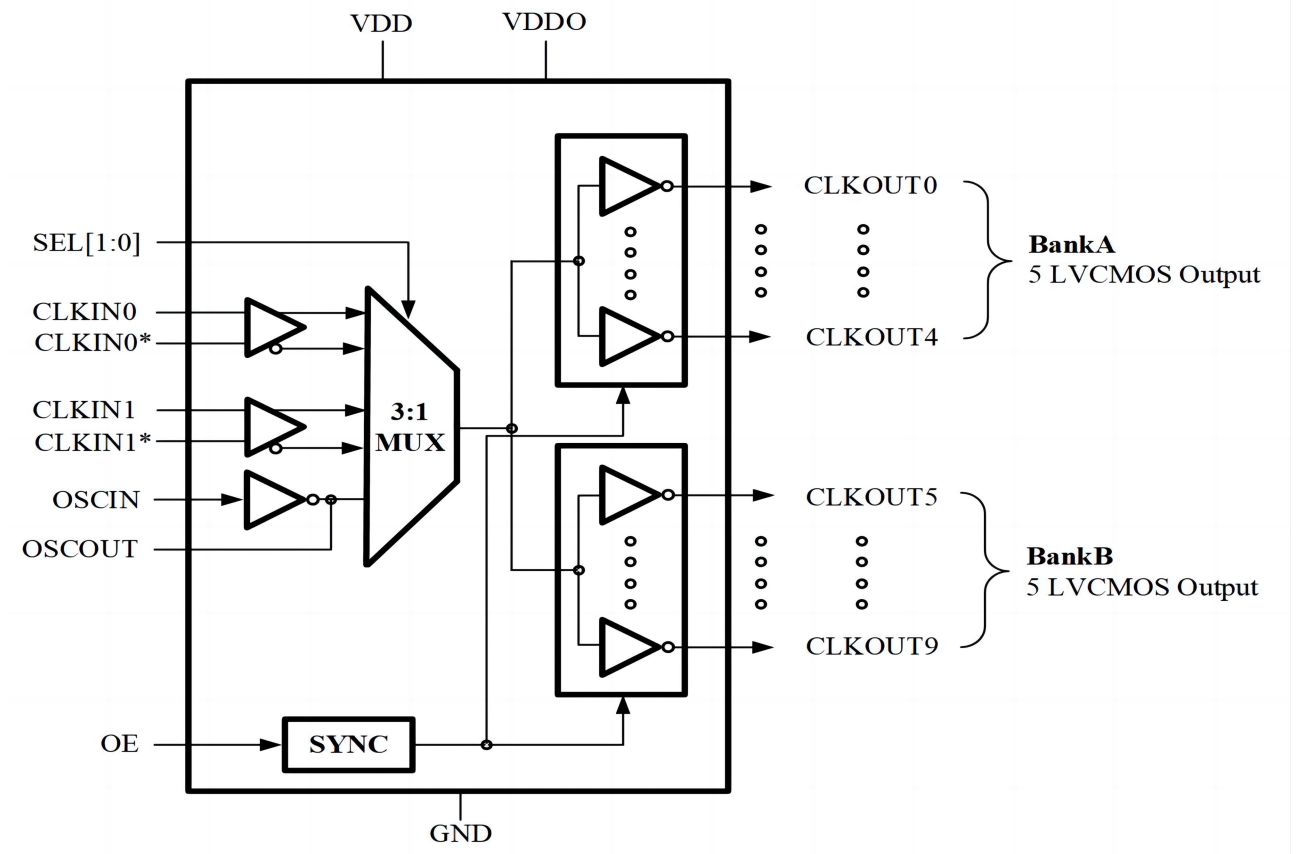
**CTB2110 Rear View**



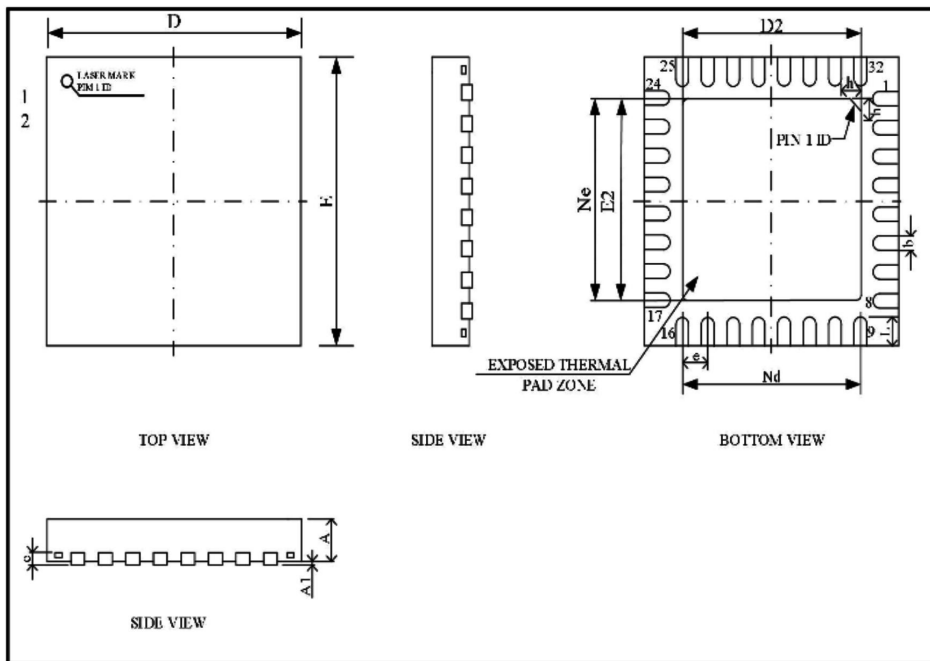
## Key Performance Indicators

| Model   | Frequency Range | Input Level Type  | Number of Input Ports | Core Voltage | Output Voltage               | Number of Output Ports | Output Level Type | Temperature Range | Packaging |
|---------|-----------------|---|-----------------------|--------------|------------------------------|------------------------|-------------------|-------------------|-----------|
| CTB2110 | DC~200 MHz      | LVPECL<br>LVDS<br>HCSI<br>SSTL<br>LVCMOS /LVTTL<br>Crystal Oscillator | 3                     | 3.3V         | 1.5V<br>1.8V<br>2.5V<br>3.3V | 10                     | LVCMOS            | -40~+85°C         | QFN32     |

## Functional Diagram



## Packaging Diagram



## Packaging Information

| SYMBOL | MILLIMETER |      |      |
|--------|------------|------|------|
|        | MIN        | NOM  | MAX  |
| A      | 0.65       | 0.75 | 0.85 |
| A1     | --         | 0.02 | 0.05 |
| b      | 0.20       | 0.25 | 0.30 |
| c      | 0.18       | 0.20 | 0.25 |
| D      | 4.90       | 5.00 | 5.10 |
| D2     | 3.40       | 3.50 | 3.60 |
| e      | 0.50BSC    |      |      |
| Ne     | 3.50BSC    |      |      |
| Nd     | 3.50BSC    |      |      |
| E      | 4.90       | 5.00 | 5.10 |
| E2     | 3.40       | 3.50 | 3.60 |
| L      | 0.35       | 0.40 | 0.45 |
| h      | 0.25       | 0.30 | 0.35 |