## CL12511IP340

## Introduction

The CL12511IP340 Transmitter converts 24bits LVCMOS parallel data of RGB into 3-channnel mini-LVDS serial data streams. A Phase-locked transmit clock is transmitter in parallel with the data streams. The Cl12511IP340 transmitter is programmed for rising edge or falling edge clocks through a dedicated pin. At a transmit clock frequency of 340MHz, 24bits of RGB data are transmitted at a rate of 680Mbps per mini-LVDS data channel. The CL12511IP340 Transmitter is an ideal means to solve EMI and cable size problems associated with wide, high speed CMOS interface.

## **Feature**

- Input Clock: 20MHz to 85MHz (max: 112MHz) shift clock support
- Output Clock: 80MHz~340MHz (max: 448MHz)
  Output Data Rate: 160Mbps~680Mbps (max: 896Mbps)
- Low power single 3.3V (Option: 2.5 / 2.8V) (Option: 1 / 1.2 / 1.5 / 1.8V Logic/Level Shifter)
- Clock Edge Programmable
- Supports VGA, SVGA, XGA, SXGA, SXGA+
- Narrow bus reduces cable size
- PLL requires no external components
- Power down mode
- ±200mV swing mini-LVDS for low EMI
- mini-LVDS format

## **Block Diagram**

