



HX8201

240/288 Channel TFT LCD Analog Source Driver for AV Application

PRELIMINARY

November 2002, Version 03

1. General Description

HX8201 is a source driver for AV type color TFT LCD. So the interface is analog R, G, B video signals. Signals of video are sampled and held serially, then these signals are sent out synchronously through output channels. This chip provides clock selection function to simplify application circuit by MOD select.

This chip provides a 240/288 channel-selectable function for users to optimum the cost. And also applies bi-direction shift control for easier circuit layout and cascade function for dot expansion.

For best display quality and application, output voltage with almost full range is offered. And for COG solution, special pin location and dummy pads are supported. That can enhance reliability and performance.

2. Features

- Source driver for TFT LCD panel
- 240 (RGBx80) or 288(RGBx96) channel outputs alternative
- Dual sampling and hold circuit
- Three or one clock signal alternative
- Dynamic range : 0.1 ~ 4.9V
- Voltage deviation of outputs $\pm 20\text{mV}$
- Cascade function for dot-expansion
- Right and left shift capability
- Switchable R,G,B signals for meeting color filter types
- Digital power : 2.5~5.5V
- LCD power : 3~5.5V
- Bare chip with gold bumper for COG solution