

[REFERENCE]

[Features of MT3100]

- Possible to display a maximum of 550 billion colors with RGB combination
- By outputting all gray-scale level linearly, no need to redesign drivers for LCD
- Supplies individual gray-scale voltage to each RGB pixels based on the condition on the Look-Up-Table (LUT)*1
- By minimizing the increment of chip-size, achieves a driving voltage of 16.5V (max), enabling use for IPS*2 and VA LCD methods*3
- Supports 414, 420, 480 and 516 output ports, responding to most formats available

[MT3100 Specifications]

Volume production planned from June 2006

Product Name	MT3100
Output Gray-scale	13bit/12bit Selectable
Input Data	6 Pairs of FP-LVDS (mini-LVDS compatible)
Max. Clock Rate	216MHz (Equivalent to 432Mbps)
LCD Driving Voltage	Max. 16.5V
Logic Voltage	2.7V – 3.6V
Output Port Numbers	414, 420, 480, 516CH Selectable

[Features of FP-LVDS (Comparison between mini-LVDS)]

Items	mini-LVDS	FP-LVDS
Max. Clock Rate	Approx. 180MHz	Approx. 250MHz
Gray-scale	Max. 10bit	Max. 16bit
Standard Pair Numbers	6 Pairs	6 Pairs

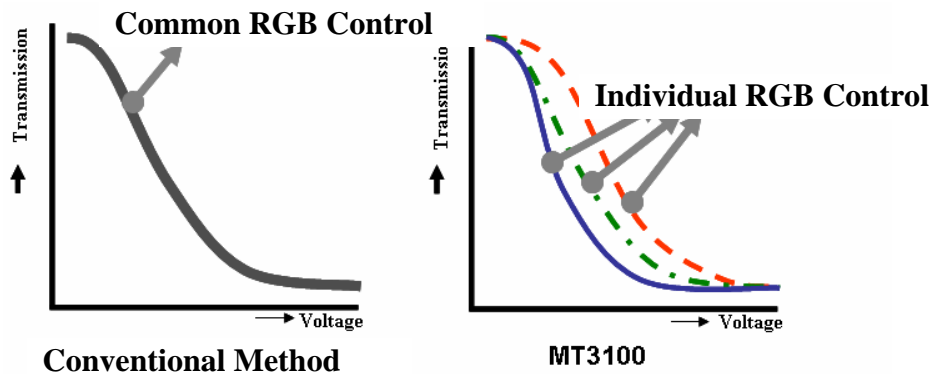


Figure 1 Comparison Between Conventional Method and MT3100

[Glossary]

*1 LUT (Look Up Table):

Adjusts the gray-scale based on the parameter stored in the EP-ROM

*2 IPS (In-Plane-Switching):

This is a type of LCD technology with wide view-angle by horizontally aligning molecules under smaller tilted angle which can prevent the Birefringence.

*3 VA (Vertical Alignment):

This is a type of LCD technology that vertically aligns molecules. Though it has a narrower view-angle than IPS, process is more simple, suited for volume production.