

Notebook Gamma Trimster™ AGN1814

FEATURES

- 14 Programmable Gamma References (AGN1814)
 - 12 Programmable Refs (AGN1812)
 - 10 Programmable Refs (AGN1810)
- Wide Gamma Output Range: 0.1V to 11.9V
- High Precision: 5mVolt Programming Resolution
- Absolute Voltage Programming
 - Eliminates Gamma variation due to AVDD variation panel to panel
 - Ground referenced output voltages
- Nonvolatile Storage of 8 Gamma Reference Profiles
- Nonvolatile Default Bank Register
 - Allows programming of the default bank
- Fast Gamma and Backlight Voltage Switching
 - <2 μ sec for a 0.5V Change (typ.)
 - Facilitates Dynamic Gamma Compensation and Backlight Modulation
- Programmable VCOM Output
- Integrated 2K-bit EDID serial Memory
- Simple Programming Interface Using the Alta AP100 Programmer

APPLICATIONS

- Notebook LCD Panels
 - Windows Vista Compliance
 - Applications Based Gamma Selection

DESCRIPTION

The AGN1814 is a programmable gamma reference generator that is designed to enable programmable/selectable gamma settings in high-resolution LCD panels.

The AGN1814 provides fourteen (14) gamma reference outputs (V_{GMA1} - V_{GMA14}), each output is programmed with eight (8) gamma reference voltages that are selectable through the serial interface.

The AGN1814 is programmed by Alta with the gamma reference sets required for a particular panel. These voltages are reproduced on the panel to a high level of precision (± 5 mV) on each and every panel regardless of the AVDD value. This virtually eliminates panel-to-panel gamma variation caused by variations in the AVDD supply or traditional resistor ladders.

A programmable VCOM output allows for the automated trimming of the VCOM level.

The AGN1812 and AGN1810 provide the same functionality as the AGN1814, with reduced numbers of programmable gamma reference outputs (12 and 10 respectively).

The AGN1814 has an integrated 2K-bit serial E²PROM memory providing the ideal EDID memory for notebook applications.

