EPP9620 Product Brief

EPP9620 is an integrated multi-channel power IC for medium-sized LCD monitor. It contains two asynchronous boost converters for AVDD and VGH, two synchronous buck converters for VIO and VCORE, two negative charge pump regulators for VGL1 and VGL2, 6 programmable voltage buffers for HAVDD, VCOM and 4-channel Gamma. All output voltages are I^2C programmable.

EPP9620 also contains a 12-channel high voltage level shifter, which converts the timing-controller (TCON) logic-level signals to the high level signals required by the gate-in-panel (GIP) display.

Features

- Input Supply Voltage Range: 3.6V ~ 6.0V
- Fully I^2C Programmable
- 7-bit Boost Converter for AVDD: 10V to 18V
- 5-bit Boost Converter for VGH: 15V to 40V
- 6-bit Buck Converter for VIO: 1.6V to 3.6V
- 5-bit Buck Converter for VCORE: 0.8V to 2.0V
- 5-bit Negative Charge Pump Controller for VGL1: -15V to -3V
- 4-bit Negative Charge Pump Controller for VGL2: -10V to -3V
- Programmable HAVDD, VCOM and Gamma
- Programmable Reset Voltage Detector
- 12-CH Level Shifter with Charge Sharing
- Programmable Power-Up Timing Sequence
- Output Soft-Start for Low Inrush Current
- Protection
  - OVP (Over Voltage Protection)
  - SCP (Short Circuit Protection)
  - OCP (Over Current Protection)
  - UVP (Under Voltage Protection)
  - OTP (Over Temperature Protection)
- 56-Pin QFN Packaging (7mm x 7mm)
- ROHS: Halogen Free

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