

EPP9931 is an integrated multi-channel power IC for small-sized LCD monitor. It contains two synchronous boost converters for AVDD and VGH, two synchronous buck converters for VIO and VCORE, one negative charge pump regulator for VGL, four programmable voltage buffers for HAVDD, VCOM and 2-channel Gamma, one low dropout voltage linear regulator, and two voltage detectors. All output voltages are I²C programmable.

EPP9931 can operate from 2.5V to 5V input voltages. High frequency operation allows a compact PCB circuit area with small inductors and capacitor.

Features

- Input Supply Voltage Range: 2.5V ~ 5V
- Fully I²C Programmable
- 7-bit Boost Converter for AVDD: 7V to 13.5V
- 5-bit Boost Converter for VGH: 10V to 34V
- 6-bit Buck Converter for VIO: 1V to 2.8V
- 5-bit Buck Converter for VCORE: 0.8V to 2V
- 7-bit Negative Charge Pump Controller for VGL: -13V to -4.4V
- 4-bit LDO: 1.8V to 2.8V
- Programmable HAVDD, VCOM and Gamma
- Programmable Reset Voltage Detector
- 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)
- 28-Pin WQFN Packaging (3.5mm x 3.5mm)
- ROHS: Halogen Free

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