

AXPM65611

200mA Triple DC-DC Converter
with LDO AVDD for Powering
AMOLED Display



Datasheet – Dec 2021

Description

AXPM65611 is a triple DC-DC converter designed to drive AMOLED display panel requiring 3 supply rails. It integrates an 200mA step-up converter VPOS, an 200mA inverting converter VNEG and an 100mA auxiliary LDO AVDD. The device is particularly suitable for battery operated products, in which the major concern is the overall system efficiency. The digital control allows programming the VNEG in digital steps. Excellent line and load regulation, soft start with controlled inrush current limit, thermal shutdown and short circuit protection are also integrated.

Features


- Operating input voltage range from 2.9V to 4.5V
- Step-up converter (VPOS)
 - 4.6V output voltage
 - 200mA output current
 - 0.5% accuracy (25°C to 85°C)
- Inverting converter (VNEG)
 - -1.4V to -4.4V programmable output voltage (-2.2V default)
 - 200mA output current
- LDO (AVDD)
 - 3.3 default or lower of V_{in}
 - 100mA output current
- Efficiencies >90%
- Excellent line and load regulation
- Short circuit protection
- Thermal shutdown

Applications

- AMOLED power supply in portable devices like mobile phones, multi-media players, camcorders, digital still cameras, and wearables.

Table 1 Device Summary

Order code	Package	Packing
AXPM65611	DFN12 2.4 × 1.5 × 0.5mm	Reel



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