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Freescale ▸ Power Management ▸ Power Management Integrated Circuits (PMICs) ▸ Power Management for i.MX Application Processors ▸ MMPF0100

MMPF0100: Power Management Integrated Circuit (PMIC) for the i.MX 6 series ☆

Overview | **Documentation** | **Software & Tools**

PREPRODUCTION

PF0100 is the first of the PF Series of PMICs. It features a configurable and programmable architecture that supports numerous outputs with various current ratings to power the core processor, memory and a wide range of peripherals. It simplifies system design by integrating full system level power management functions. This significantly reduces design complexity and leads to a reduced bill of materials. An optimized performance architecture offers improved efficiencies and advanced functionality for consumer, industrial and automotive applications.

The PF0100 is ideally suited to the i.MX 6 series of applications processors. It is incorporated into multiple reference designs with the i.MX 6 series. This provides customers a platform level solution from a single supplier to enable faster time to market and reduce engineering effort.
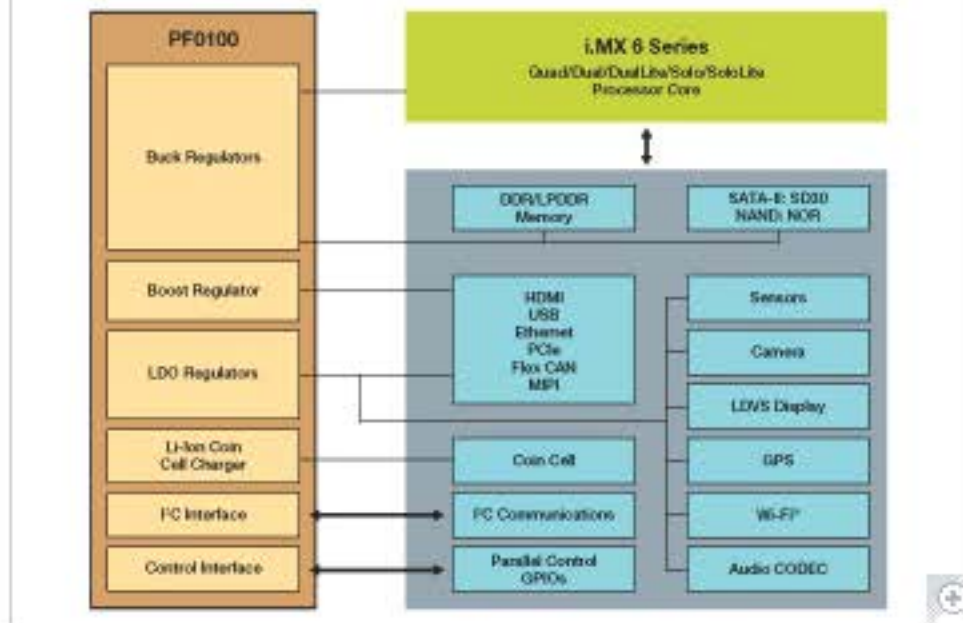
This page contains information on a preproduction product. Specifications and information herein are subject to change without notice.

For additional information and sample availability, contact your local Freescale Sales Office or Freescale Authorized Distributor.

Features

- Multiple channel buck regulators with configurable outputs and programmable output voltages
  - Powers processor cores, memory, main peripheral bus, wireless chipsets
- Multiple linear regulators with programmable output voltages
  - Powers peripherals such as HDMI, GPS, SD card, sensors, Ethernet, camera, RTC
- Boost regulator for USB
- Programmable startup sequence and timing
- High efficiency conversion up to 95%
- I²C interface control
- One time programmable (OTP) memory for storing settings
- Available in two package options
  - E-Type QFN – 8mm x 8mm , 56 Ld
  - Wettable Flank QFN – 8mm x 8mm, 56 Ld

System Power Management

Featured Documentation

PFSERIESFS: PFSeriesFS, System Power Fusion by Freescale, Fact Sheet

Featured Software and Tools

KITPF0100EPEVBE: MMPF0100 Evaluation Board
KITPFPGMEVME: PF Series Programmer

Target Applications

- Automotive
  - Low-End Infotainment Head Unit/Connected Radio
- Consumer
  - eReaders
  - Media Phones
  - Tablets
- Industrial
  - Human Machine Interface (HMI) **UPDATED**
- Medical/Health Care
  - Portable Electrocardiograph (ECG)
- Networking
  - Home Energy Management Systems

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