ACT8862

Product Brief, 05-Dec-11

Advanced PMU for Amlogic AML8726-M3

FEATURES

- **Optimized for Amlogic AML8726-M3 Processor**
- **Three Step-Down DC/DC Converters**
- **Four Low-Dropout Linear Regulators**
- **I²C™ Serial Interface**
- **Advanced Enable/Disable Sequencing Controller**
- **Minimal External Components**
- **Tiny 4×4mm TQFN44-32 Package**
  - **0.75mm Package Height**
  - **Pb-Free and RoHS Compliant**

GENERAL DESCRIPTION

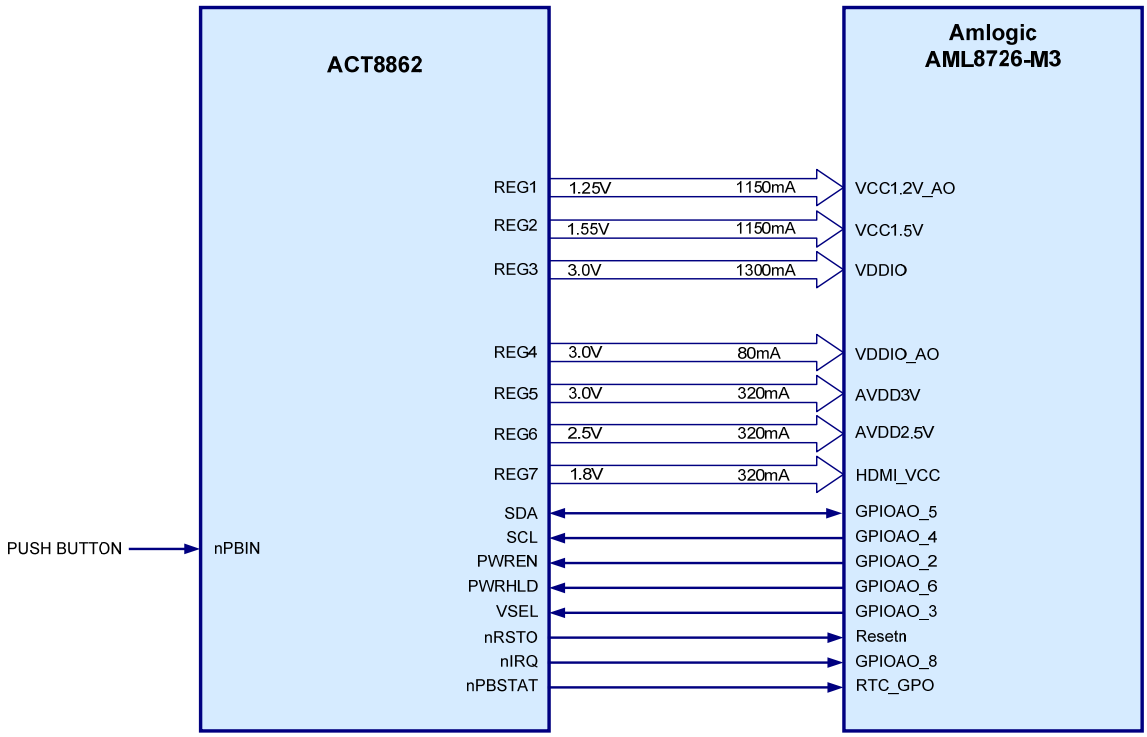
The ACT8862 is a complete, cost effective, highly-efficient *ActivePMU™* power management solution, optimized for the unique power, voltage-sequencing, and control requirements of the Amlogic AML8726-M3 processor.

This device features three step-down DC/DC converters and four low-noise, low-dropout linear regulators.

The three DC/DC converters utilize a high-efficiency, fixed-frequency (2MHz), current-mode PWM control architecture that requires a minimum number of external components. Two DC/DCs are capable of supplying up to 1150mA of output current, while the third supports up to 1300mA. All four low-dropout linear regulators are high-performance, low-noise, regulators that supply up to 80mA, 320mA, 320mA and 320mA, respectively.

The ACT8862 is available in a compact, Pb-Free and RoHS-compliant TQFN44-32 package.

TYPICAL APPLICATION DIAGRAM



PRODUCT OPTIONS

Block	Function	Output Voltage	Capability
REG1	Step-Down DC/DC	0.6V to 3.9V	1150mA
REG2	Step-Down DC/DC	0.6V to 3.9V	1150mA
REG3	Step-Down DC/DC	0.6V to 3.9V	1300mA
REG4	LDO	0.6V to 3.9V	80mA
REG5	LDO	0.6V to 3.9V	320mA
REG6	LDO	0.6V to 3.9V	320mA
REG7	LDO	0.6V to 3.9V	320mA

FUNCTIONAL BLOCK DIAGRAM