General Description

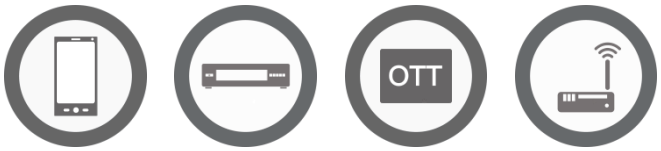
The EA3059 is a 4-CH power management IC for applications powered by one Li-Ion battery or a DC 5V adapter. It integrates four synchronous buck regulators and can provide high efficiency output at light load and heavy load operation. The internal compensation architecture simplifies the application circuit design. Besides, the independent enable control makes the designer have the greatest flexibility to optimize timing for power sequencing purposes. The EA3059 is available in a 24 pin QFN 4x4 package.

Features

- 2.7V to 5.5V Input Voltage Range
- Four Buck Converters
  - Output Voltage Range: 0.6V to Vin
  - Maximum Continuous Load Current: 2A, Maximum Peak Load Current: 4A (4CH total output power consumption must be less than 10W)
  - 180° Phases Shifted Architecture
  - Fixed 1.5MHz Switching Frequency
  - 100% Duty Cycle Low Dropout Operation
  - <1uA Shutdown Current
  - Independent Enable Control
  - Internal Compensation
  - Cycle-by-Cycle Current Limit
  - Short Circuit Protection
- Each Channel Efficiency Up to 95%
- Auto Recovery OTP Protection
- Available in 24-pin 4mm x 4mm QFN Package

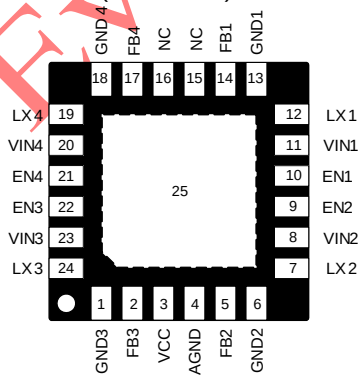
Applications

- Smart Phone
- STB
- OTT
- MiFi



Pin Configurations

(TOP VIEW)



QFN 4x4-24