

Overview

The asicNorth ANPOR0400 is a Dual Power On Reset circuit used to sense the voltage levels of two power supplies. As the power supplies are ramped on, the ANPOR0400 monitors the voltage level in both and reports when the voltage has crossed into a functional operating range. After reporting that both power supplies are in the functional range, the ANPOR0400 latches the output signal high and enters an ultra-low power state.

This circuit is particularly useful for single or dual supply battery applications such as power management. The ANPOR0400 requires the 1.8V supply is first followed by the 4.5V.

Applications

- Laptops
- Appliances
- Medical IC
- Power Management

Features

- Temperature Range: 55C to 125C
- Power Supply 1: 1.6V to 2V
- Power Supply 2: 4V to 5.5V
- Rising Trip Point 1: 1.2V to 1.7V
- Rising Trip Point 2: 3.5V to 4.5V
- Bias Current: 5uA
- Process: ONC18
- Area = 0.66mm² (230µm x 250µm)

Deliverables

- Specification
- GDS
- CDL
- LEF
- Verilog model
- Application documentation

Block Diagram

