

Product Description

The C434 Digital Component is a Reference Comparator function customizable with a programmable reference voltage. Combine the C434 component with other Power Components to create a custom-defined, AnDAPT AmP on-demand power management device.

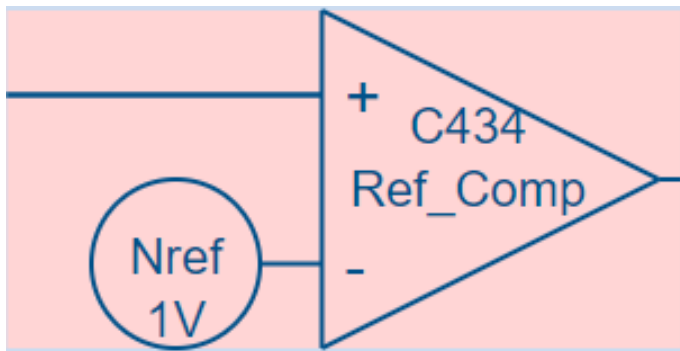
Features

- Analog in, digital out
- Programmable reference voltage

Block Diagram

Figure 1 provides a block diagram of the C434 component which can be integrated with system power rails on the AmP device for additional logic and state machine solutions.

Figure 1. C434 block diagram configured as 1V comparator



Product Detail

The C434 component provides customizable features described in detailed functionality Verilog Code below.

Verilog Code

```
module C434_B_1_0_Reference_Comparator    (  
    Analog_In,  
    Digital_Out,  
);  
input Analog_In;  
output Digital_Out;  
  
//Reference Comparator  
wire Digital_Out;  
  
//Default 1.1V  
parameter [1:0] Digital_Out_Gain = 2'b00;  
parameter [9:0] Digital_Out_Nref = 10'h37D;  
  
endmodule
```