

Application Note:

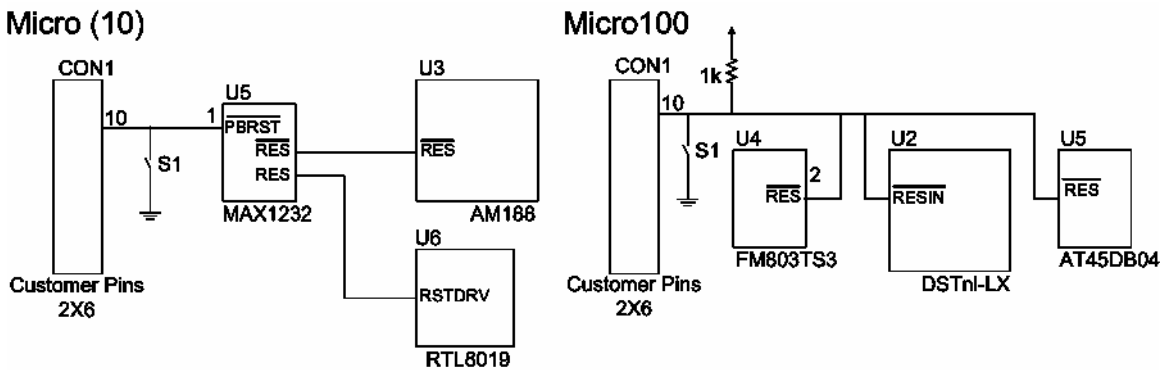
Differences in Micro/Micro100 Reset Pin Characteristics

Overview

The reset pin on Micro100 has different characteristics than the Micro. The circuitry inside is different in each of these designs. Micro uses a MAX1232 Microprocessor Monitor with watchdog timer and the Micro100 uses a FM803 μ Controller Supervisor. The two different reset chips have different effects on the input reset line. Since components in your design may utilize the Reset signal, it is important that you are aware of these differences. The major difference to be aware of is the Micro100 will pull the reset pin low at power-up and the Micro10 reset pin is input only.

Schematic Differences

The following diagram illustrates the difference between the Micro and the Micro100:



Note: The FM803 has an active low open-drain output and does not have a debounce feature.

Parameter Differences

Parameter	Micro	Micro100
Low Maximum	0.8 V	n/a
High Minimum	2.0 V	n/a
Vcc Reset Threshold	4.62 V	3.08 V
Timeout	250 ms	256 ms
Pull-Up	~100 μ A	1k Ω
Debounces Input	Yes	No