



RESET TIMER WITH CONFIGURABLE DELAY

Fairchild's Offering

Due to the increasing consumer demand for feature-rich smart phones and myriad of user applications, more handsets are experiencing software malfunctions and/or phone lock-up due to the inability to test all software on every handset platform. This phenomenon is commonly referred to as the "white screen of death". Fairchild's solution is the FT8010 reset timer, which allows the user to reset their handset with the push of a button, eliminating the need to physically remove the battery or return the phone to the carrier.

Short Duration ($t_w < N$)

In this case, both input /SRO and /SR1 are LOW for a duration t_w which is shorter than time N. When an input goes LOW, the internal timer starts counting. The input goes HIGH before time N. The timer stops counting and resets and no changes occur on the outputs (see Figure 1).

/SRO	/SR1	/RST1	/RST2	Description
	L	H	L	The timer starts counting when an input goes LOW. The timer stops counting and resets when the input goes HIGH. No changes occur on the outputs.
L		H	L	

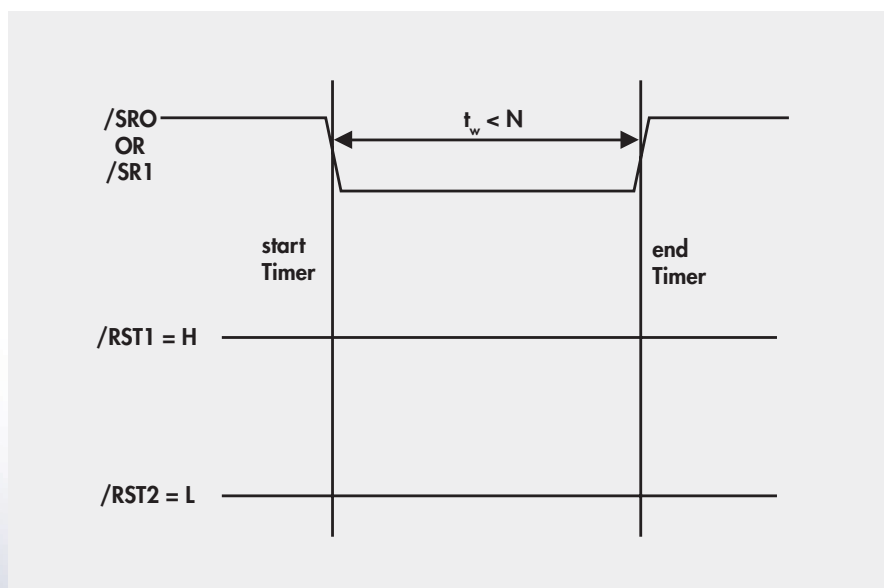


Figure 1: Short Duration Waveform

For data sheets, application notes, samples and more, please visit: www.fairchildsemi.com

Fairchild's FT8010 is currently available for purchase in two industry standard packages, the 2.0 x 2.0mm MLP package and the even smaller 1.4 x 1.8mm ultrathin MLP package.

FT8010 Features

The FT8010 is configurable for two programmable delay times, 7.5 or 11.25 seconds (+/- 20%). The long delay time eliminates an inadvertent reset due to an accidental key press by the user. The FT8010 can also be configured for single or dual button reset capability. The device features two outputs; a push-pull output with 0.5mA drive and an open-drain output with 0.5mA pull-down drive. The FT8010 draws minimal I_{CC} current when inactive and functions over a wide power supply range of 2.0V to 5.0V.

Product Number	V _{CC} (Min.)	V _{CC} (Max.)	I _{CC} (Timer Inactive)	I _{CC} (Timer Active)	Package
FT8010UMX	-0.5	5.5	20µA	100µA	10-Lead Ultrathin MLP, 1.4 x 1.8 x 0.55mm Package, 0.40mm Pitch
FT8010MPX	-0.5	5.5	20µA	100µA	8-Lead MLP, 2.0 x 2.0 x 0.8mm Package, 0.5mm Pitch



For additional information, please visit:
www.fairchildsemi.com/products/switches/multimediaswitch.html