

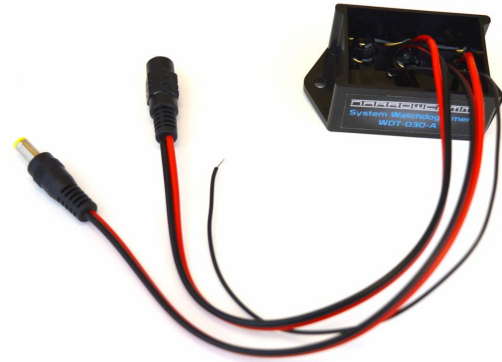
NARROWCOMM

System Watchdog Timer

WDT-D30-A

Applications

Remote reboot of embedded systems
IoT Cellular Gateway monitoring



Description

The System Watchdog Timer monitors activity from an embedded device such as a gateway for Internet of Things (IoT) devices. If the device stops providing stimulus to the watchdog, it disconnects the power to the device briefly, then reconnects it, forcing the device to reboot. Stimulus is provided via a single digital signal that must change at least once every T_{ON} minutes.

Features

- 5.5mm x 2.5mm barrel power in and out
- LED status indicator, one blink per second
- Single input wire digital stimulus
- LED indicator shows when stimulus occurs

Specifications

Symbol	Parameter	Min	Typ	Max	Units	Notes
$V_{IN}(AC)$	AC Voltage In	7		24	Volts AC	
$V_{IN}(DC)$	DC Voltage In	9		28	Volts DC	
T_{ON}	Time before reset without input stimulus	31.5	33	34.5	Minutes	
T_{OFF}	Reset time	10.5	11	11.5	Seconds	Duration that output power is off after a reset
I_{OUT}	Current Handling			5	Amps	
R_{SW}	Switch resistance			0.1	Ohms	
$V_{STIM}(H)$	High Stimulus	4.8			Volts	
$V_{STIM}(L)$	Low Stimulus			3.5	Volts	