



GizmoLab

# DATASHEET G-WD-201 REV0 (MINING EDITION)

(Dual channel)

The G-WD-201 watchdog module is customized to meet the unique needs of GPU Crypto mining platforms - to minimize potential downtime due to unforeseen crashes or stability issues. The Dual channel watchdog module can be used to monitor and control 2 mining rigs simultaneously.

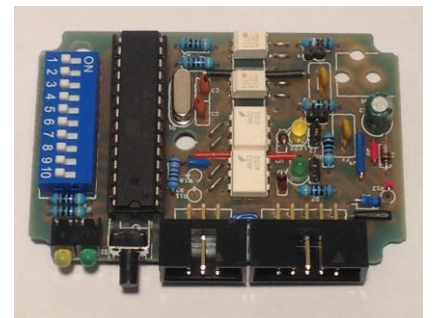
## Operation

The module is powered from any 5V DC source but the supplied cable makes it possible to connect directly to the Mining rig's Motherboard on the pins normally used for the Case Front USB ports.

The module's inputs are connected to the motherboards "Hard Drive Activity LED" pins and the outputs to either the "Power" or "Reset" pins. Using the module's dipswitch the user can configure each channel independently to operate in power cycle or reset mode.

Once installed and powered, the module will wait approximately 60 seconds before it starts monitoring. The module initiates the power/reset cycle on a specific channel when no activity has been detected for the timeout duration. After the power/reset cycle the module again waits 60 seconds before monitoring is resumed.

Should it be required any watchdog channels can be disabled using the onboard push button. The button is first used to select the desired channel, then to initiate a power/reset cycle. Monitoring on the channel is then disabled until the button is pressed again to initiate another power/reset cycle and re-enable monitoring.



	Min	Max
Supply Voltage (DC)	4V	5.5V DC, 500mA
Operating Temperature (°C)	0°C	70°C
Dimensions (mm)	PCB: 68(W) x 46(D) x 15(H)	Enclosure: 72(W) x 54(D) x 25(H)

## Inputs/Outputs

	Inputs	Outputs
Channels	2 (Connects to HDD LED pins)	2 (Connects to Power/Reset pins)
Voltages	Sensing: 4.5VDC Min , 5VDC MAX	Switching: AC/DC, MAX 5V 100mA
Push Button	1 – Channel(s) reset/power cycle and disabling monitoring of channel(s)	
LEDS	2 - Indicates input activity (1 per input)	2 - Indicates input activity (1 per input)
Power	Connects on Ch1 connector	
Ports	Channel1: 10pin connector Channel2: 6pin connector	
Cables	Channel 1 - 6 pair 20cm (power, input, output) Channel 2 - 4 pair 20cm (input, output)	

## Configurable Parameters

Dipswitch 1,2,3	Timeout Duration (Minutes): 2, 4, 6, 8, 10, 12, 14, 16
Dipswitch 4,5,6	Pulse Duration (Milliseconds): 100, 200, 300, 400, 500, 600, 700, 800.
Dipswitch 7,8	Power/Reset Mode (Off = Power, On = Reset )
Dipswitch 9	Pulse Duration Multiplier (Off = x1, On = x10)
Dipswitch 10	Reboot Timeout Mode(Off = Disabled, On = Enabled)
Jumper Input Ch1/2	Disable input LED
Jumper output Ch1/2	Bypass output 390Ω series resistor