

# WT7512

## GENERAL DESCRIPTION

The WT7512 provides protection circuits, power good output (PGO), fault protection latch (FPL\_N), and a protection detector function (PDON\_N) control. It can minimize external components of switching power supply systems in personal computer.

The Over / Under Voltage Detector (OVD / UVD) monitors 3.3V, 5V, 12V input voltage level. When OVD or UVD detect the fault voltage level, the FPL\_N is latched HIGH and PGO go low. The latch can be reset by PDON\_N go HIGH. There is 2.4mS delay time for PDON\_N turn off FPL\_N.

When OVD and UVD detect the right voltage level, the power good output (PGO) will be issue.

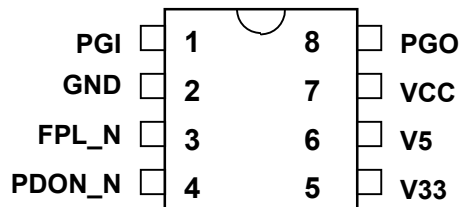
The WT7512 is similar to WT7510. It added under voltage detector of 12V and the short power-on protection. And the delay time 1.2mS is changed to 2.4mS.

## FEATURES

- The Over / Under Voltage Detector (OVD / UVD) monitors 3.3V, 5V, 12V input voltage level.
- Both of the power good output (PGO) and fault protection latch (FPL\_N) are Open Drain Output.
- 75 / 300 ms time delay for UVD.
- 300 ms time delay for PGO.
- 38 ms for PDON\_N input signal De-bounce.
- 73 us for internal signal De-glitches.
- 2.4 ms time delay for PDON\_N turn-off FPL\_N.

## PIN ASSIGNMENT AND PACKAGE TYPE

### Pin assignment



| Package type       | ORDERING INFORMATION |
|--------------------|----------------------|
| 8-Pin Plastic DIP  | WT7512-N080WT-12     |
| 8-Pin Plastic SOIC | WT7512-S080WT-12     |

### PIN DESCRIPTION

| Pin No. | Pin Name | TYPE | Description                                           |
|---------|----------|------|-------------------------------------------------------|
| 1       | PGI      | I    | power good input pin                                  |
| 2       | GND      | P    | Ground                                                |
| 3       | FPL_N    | O    | fault protection latch output pin(open drain output)  |
| 4       | PDON_N   | I    | protection detector function ON/OFF control input pin |
| 5       | V33      | I    | 3.3V input pin                                        |
| 6       | V5       | I    | 5V input pin                                          |
| 7       | VCC      | I    | Supply voltage / 12V input pin                        |
| 8       | PGO      | O    | power good output pin(open drain output)              |