



WM5560: Quad, IEEE 802.3at/af PSE Controller for Power-over-Ethernet

WM5560 is a quad, power-sourcing equipment (PSE) power controller designed for use in IEEE® 802.3at/af-compliant PSE. This device provides powered device (PD) discovery, classification, current limit, and load disconnect detection. WM5560 supports both fully automatic operation and software programmability. It also supports new 2-event classification. WM5560 supports single-supply operation, providing up to 70 W to each port (Class 5 enabled) and high-capacitance detection for legacy PDs.

WM5560 features an I2C-compatible, 3-wire serial interface, and is fully software configurable and programmable. The device provides instantaneous readout of port current and voltage through the I2C interface. The device's extensive programmability enhances system flexibility, enables field diagnosis, and allows for uses in other nonstandard applications.

The device is available in a space-saving, 32-pin QFNWB (5 mm × 5 mm) power package and is rated for the automotive (-40 °C to +105 °C) temperature range.

Features

- IEEE 802.3at/af compliant
- 0.25Ω current-sensing resistor
- Up to 70W per port for PSE applications
- 9-bit port current and voltage monitoring
- I2C-compatible, 3-wire serial interface
- Supports single-supply operation
- High-capacitance detection for legacy devices
- Supports DC load-removal detections
- 32PIN QFNWB (5 mm × 5 mm) power package

Applications

- PSE-ICM
- Power-sourcing equipment (PSE)
- Switches/Routers
- Mid-span power injectors

Physical Specs

Part	● WM5560
Temp Range	● -40 °C ~ +105 °C
PIN-Package	● QFNWB5×5-32L-Q

Typical Application Circuit

