



New Product Announcement

Mouser Electronics Now Stocking Texas Instruments TPS3840 Super-Efficient Nanopower Voltage Supervisors

August 22, 2019 – [Mouser Electronics](#), Inc., the New Product Introduction (NPI) leader empowering innovation, is now stocking the [TPS3840](#) family of nanopower high-input voltage supervisors from [Texas Instruments](#) (TI). The TPS3840 devices are reset ICs that can operate at up to 10 V while maintaining very low quiescent current across all operating conditions. The devices provide a combination of minimal power consumption, high accuracy, and low propagation delay to help extend battery life for a variety of [low-power](#), [industrial](#), and battery-powered applications.

[TI's TPS3840](#) voltage supervisors, available from Mouser Electronics, deliver a broad input voltage of 1.5 V to 10 V, which enables the monitoring of 9 V rails or batteries with no external components as well as 24 V rails with external resistors. The devices' nano-quiescent current (nano-I_Q) of 350 nA (typical) increases battery life for low-power applications and reduces current consumption when utilizing those external resistors. With less than a 1 μ A current consumption, the ICs can be configured to work as either a comparator (with a simple three-pin configuration) or as a daisy-chained universal power supply supervisor that acts as a sequencer.

The devices' fast start-up delay allows the detection of a voltage fault before the rest of the system powers up, providing maximum safety in hazardous start-up fault conditions, and the low power-on-reset (V_{POR}) prevents false resets, premature enable or turn-on of next device, and proper transistor control during power-up and power-down. Additional features include a 1-percent typical monitor threshold accuracy, built-in glitch immunity protection for manual reset and V_{DD}, built-in hysteresis, and low open-drain output leakage current.

The TPS3840 voltage supervisors are available in a five-pin, industry-standard SOT-23 package, with three output topology options: open-drain, active-low (TPS3840DL); push-pull, active-low (TPS3840PL); and push-pull, active-high (TPS3840PH). Target [power management](#) applications include grid infrastructure equipment, such as circuit breakers, [smart meters](#), and other monitoring and protection equipment; [factory and building automation](#); electronic point of sale devices; and portable and battery-powered systems.

To learn more, visit www.mouser.com/ti-tps3840-supervisors.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

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