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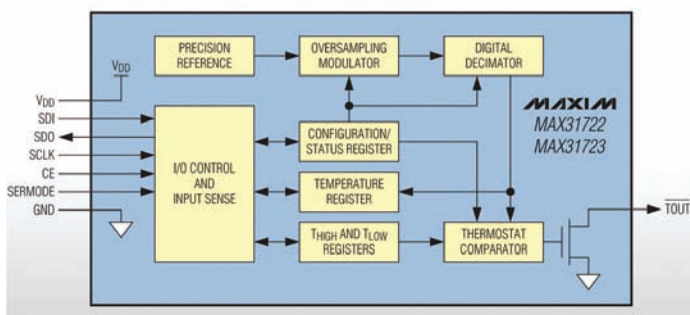
Industry's First Low-Voltage Digital Thermometers/Thermostats with Versatile SPI/3-Wire Interface

Devices are true temperature-to-digital converters with no additional components necessary.

also increases system reliability by preventing loss of data when there is an unplanned loss of power.

Both devices offer a user-selectable 1-shot or continuous temperature-conversion modes. The 1-shot mode allows the device to limit its power usage by waking up and performing a single temperature conversion only upon user request. The continuous mode enables stand-alone temperature monitoring which relieves some of the burden on the system processor.

Digital Thermometers and Thermostats



Maxim Integrated Products announces the MAX31722/MAX31723 digital thermometers and thermostats. The devices provide local temperature readings over a user-selectable SPI or 3-wire interface. While most competitive solutions require at least a 2.7V supply, these temperature sensors can operate from a voltage supply as low as 1.7V. This low supply voltage, along with a 2.4µA low-power standby mode, makes these products ideal for low-power or battery-operated systems.

The MAX31722/MAX31723 offer the designer an array of options to help ease design. An SPI or 3-wire interface is available for reading and writing data. The user can adjust the readout resolution between 9 and 12 bits for applications that require greater temperature resolution. Both high- and low-accuracy applications are satisfied with the MAX31723 (±0.5°C) or MAX31722 (±2.0°C).

The MAX31722/MAX31723 provide even more versatility for the user. Nonvolatile (NV) memory for thermostat thresholds and configuration register can be set at, or prior to, component placement with no need for reprogramming at each power up. This nonvolatile memory

The MAX31722/MAX31723 have a 1.7V to 3.7V power-supply range. They operate and measure over the -55°C to +125°C temperature range. Both parts are available in an 8-pin µMAX® package.

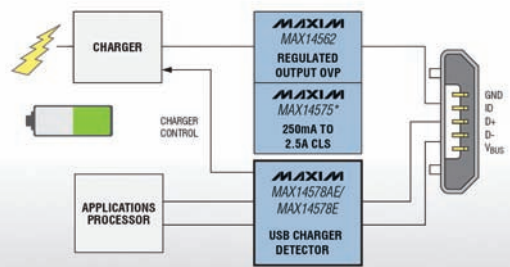
Ref. Nº 1203936

Maxim's Smallest USB Battery Charger Detectors Provide a Virtually Universal Charging Experience

Maxim Integrated Products' complete port-detection devices are compliant with USB Battery Charging Specification and work with virtually any proprietary power adapters.

Maxim Integrated Products Inc. has announced the MAX14578E/MAX14578AE, the industry's smallest USB battery charger detectors that are compliant with the USB Battery Charging Specification. These devices detect USB standard downstream ports (SDPs), USB charging downstream ports (CDPs), or dedicated charger ports (DCPs), in addition to proprietary charger adapters from Apple and Sony.

New USB Charger Detector Enhances Maxim's USB Front-End Solutions Portfolio



*Future product—contact the factory for availability.

When a charging port is detected, the MAX14578E/MAX14578AE will control an external lithium-ion (Li+) battery charger controller to optimize charge time and charging efficiency.

By supporting a broad range of USB chargers, the MAX14578E/MAX14578AE offer consumers a "virtually universal" charging experience. Manufacturers also can now ship equipment without including power adapters, so they simplify their manufacturing supply chain while improving their green credentials.

"The MAX14578E/MAX14578AE allow the consumer to charge from a wide variety of sources," said Andrew Baker, Director, Business Management at Maxim Integrated Products. "With this level of flexibility, consumers may never have to own a device with a dedicated charger again."

An on-chip LDO provides a 5.3V output which can be used to power a USB transceiver. In addition, ESD protection on the USB data pins is extended up to ±15kV (Human Body Model) and ±8kV IEC 61000-4-2 Contact Discharge. These features substantially reduce system complexity, component cost, and board space for today's highly integrated consumer devices.

The MAX14578E/MAX14578AE are available in a 12-bump, 0.4mm pitch, 1.3mm x 1.68mm WLP package for space-critical applications, and in a 16-pin TQFN package for ease of manufacturing. They operate over the -40°C to +85°C extended temperature range. An evaluation kit is available: MAX14578EVKIT.

Ref. Nº 1203935

Maxim Invests in Scintera Networks to Spearhead RF Innovation in Small Cells

Maxim announced it has made a strategic investment in Scintera Networks, Inc., a leading provider of adaptive signal processing solutions for wireless communications. The partnership will enable rapid deployment of power-efficient small cell base stations with form factors and system cost points attractive to cellular infrastructure OEMs and network operators.

"Maxim's state-of-the art, high-performance RF transceiver solutions, coupled with Scintera's novel analog pre-distortion technology, will offer superior small cell RF solutions and validated reference designs that reduce our customers' design time and complexity," said Matt Murphy, Senior Vice President of Maxim's Comm. and Power Solutions Group. "The cellular industry has signaled a critical need for smaller, power-efficient base stations. Maxim is fully committed to providing our customers with innovative RF solutions and solving the coverage and capacity challenges the industry is facing today."

"We are excited about the opportunity to expand share in the base station market by working with a leader in high-performance RF transceiver solutions," said Davin Lee, chief executive of Scintera. "Scintera's solution is ideally suited for small cells as evidenced by our design wins over the past six months and working closely with Maxim will further accelerate this trend."

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