

New Product Updates

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Si Labs New Product Releases

EZRadio® RF Transmitter + MCU Single Chip Remote Control IC

The Si4010 RF transmitter with microcontroller is the industry's first single chip remote control IC requiring only one external bypass capacitor, a printed circuit board, battery and an external casing with push buttons to form a complete remote control.

Features

- Fully integrated SoC
- Crystal-less operation
- Automatic antenna tuning
- 10 dBm output power
- 27-960 MHz frequency range
- Symbol rates up to 100 kBaud
- Ultra-low standby current < 10 nA
- FSK/OOK modulation
- Wake-on touch GPIOs
- -40 to 85 C temperature range



CP2501 Touch Screen USB Bridge Controller

The CP2501 USB touch screen bridge connects the touch screen controller with the host through a USB interface. The bridge works with various touch screen sensing technologies, including resistive and capacitive touch. Designers can connect a touch controller using an I²C, UART or SPI interface to a PC system through USB.

Features

- Pre-programmed with touch screen USB interface software
- High-speed pipelined 8051-compatible microcontroller core (up to 48 MIPS)
- 53 kB of user accessible Flash memory
- 3.5 kB user accessible RAM
- Up to 16 GPIO pins
- Built-in 3 V regulator
- USB 2.0 compliant
- Windows 7 touch interface compliant
- USB, UART, I2C, SPI
- QFN32 (5 mm x 5 mm) package



See www.silabs.com for further details

Austriamicrosystems New Product Releases

austriamicrosystems announces a low-power, 2.4 GHz multi-channel FSK transceiver with built-in star network manager

austriamicrosystems has announced the AS3940, the first fully integrated 2.4 GHz multi-channel FSK (frequency shift keying) transceiver with integrated link manager for reliable control of star networks (up to 8 clients). It features low power, high sensitivity (-100 dBm @ 250kbps, -92 dBm @ 2 Mbps), data rates from 250 kbps up to 2 Mbps, and integrates a digital RSSI (received signal strength indicator), real-time-clock (RTC) and programmable clock output, a Gaussian filter, PLL (phase locked loop) and loop filter.



The AS3940 is the first 2.4 GHz transceiver with built-in star network management protocol manager that is royalty-free and provides an easy to use protocol for self-management of all network functions. This high level of integration not only speeds system design, but also decreases the MCU's workload and ensures robust data transfer (burst and streaming modes) and correct protocol handling. The AS3940 also offers excellent adjacent channel rejection and sensitivity (-100 dBm @ 250 kbps, -92 dBm @ 2Mbps) and unique features like battery voltage monitoring, adaptive channel switching, integrated TX/RX switch and 4 separate 256-bit user data buffers.

Other features include programmable output power, efficient power management and power-optimized wakeup modes, and support of frequency hopping. The performance and integrated functions of the AS3940 make it very well suited for a number of applications, including body area networks (health, fitness), wireless sensor networks, active smart labels, home & building automation, interactive remote controls, and data streaming.

See www.austriamicrosystems.com for further details

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