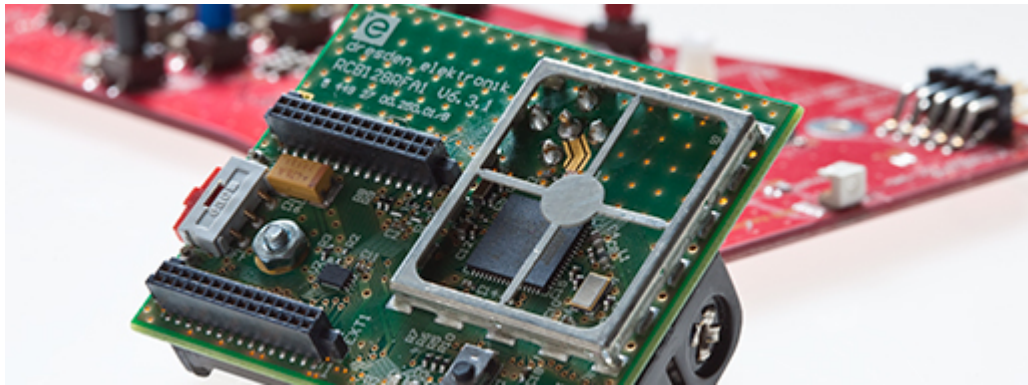


MCU Wireless



Built for Today's Connected Applications

In an increasingly connected world, wireless connectivity is more essential than ever. Consumers demands are escalating as wireless extends from PC peripherals and home entertainment applications to the Smart Grid and beyond. To support these sophisticated applications, Atmel offers a complete line of IEEE 802.15.4-compliant, IPv6/6LoWPAN based, ZigBee certified wireless solutions. They are based on Atmel's rich family of RF transceivers, 8-bit and 32-bit AVR, and ARM microcontrollers. To ease development and speed time to market, Atmel offers a variety of free software stacks, reference designs, wireless modules and development kits. Together, Atmel solutions and tools provide everything you need to meet the unique needs of low-cost, low-power, wireless control and sensor network applications.

Key Features

- **Single-Chip Solutions** — The Atmel IEEE 802.15.4-compliant single-chip solution combines the industry's leading AVR microcontroller and best-in-class 2.4GHz RF transceiver. It is ideal for applications requiring minimal board space and cost — without compromising on MCU and RF performance.
- **Transceivers** — Our wide range of high performance, low-power IEEE 802.15.4-compliant transceivers support regional 700/800/900MHz frequency bands available in China, Europe and North America, as well as the 2.4GHz band available worldwide. For maximum flexibility, these unique RF transceivers can be combined with any of Atmel's award winning microcontrollers over the SPI Interface.
- **Bundles** — Flexible IEEE 802.15.4-compliant bundles make it easy to create a solution that is perfectly aligned to your application needs. Select the Atmel MCU that provides the features and functionality you need, and combine it with one of Atmel's best-in-class RF transceivers for a complete end product that is optimized for your customers' needs.
- **Modules** — ZigBits are compact 802.15.4/ZigBee modules featuring record-breaking range performance and exceptional ease of integration. ZigBits also pack a complete FCC/CE/ARIB certified RF design that eliminates costly and time-consuming RF development and gets your product to market on-time and on-budget.

MCU Wireless Devices

Device Family	Summary Benefit	Applications	Technologies	Key Parameters
Single-Chip Solutions	Combines the industry's leading AVR® microcontroller and a best-in-class 2.4GHz RF transceiver in industry's best single-chip design	IEEE 802.15.4 and ZigBee applications	IEEE 802.15.4 compliant	2.4GHz 64 to 256 KBytes Flash

<u>Transceivers</u>	Delivers the leading RF link budget with the industry's lowest power consumption	IEEE 802.15.4 ZigBee applications	IEEE 802.15.4 compliant	Antenna diversity	700/800/900 MHz or 2.4GHz bands
		Proprietary ISM		external power amplifier	Up to 2Mbit/s on-air data rates

Details

<u>Bundles</u>	Pair any transceivers with a microcontroller to fit your application requirements	Metering			
		IEEE 802.15.4 and ZigBee applications	IEEE 802.15.4 compliant	700/800/900 MHz or 2.4GHz bands	64 to 256 Kbytes Flash

<u>Modules</u>	ZigBits are compact 802.15.4/ZigBee modules featuring record-breaking range performance and exceptional ease of integration.	IEEE 802.15.4 and ZigBee applications	IEEE 802.15.4 compliant	Antenna diversity	700/800/900 MHz or 2.4GHz bands
				external power amplifier	

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