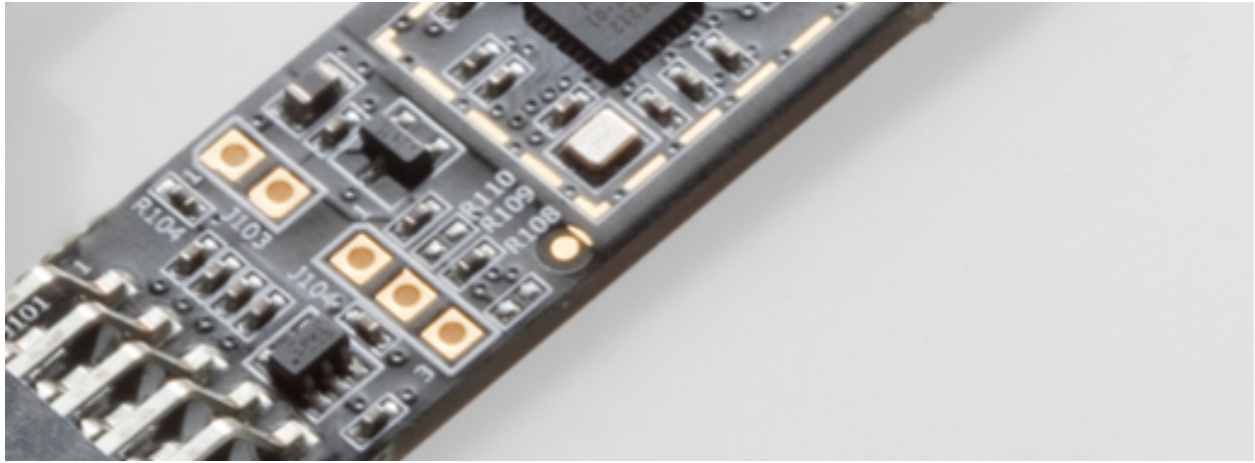


Smart RF



Key Features

- **Integrated design** — Because of our experience in digital and analog design, we have produced a portfolio of RF devices that deliver the largest link budget in the industry. System level functions such as automatic transmission, frame acknowledgement and hardware security accelerators offload the microcontroller to reduce power and computation burden.
- **Broad data rate and transmission support** — Our devices support data rates from 1Kb/s to 20Kb/s (FSK) and 1Kb/s to 10Kb/s (ASK) in Manchester mode and bi-phase mode, plus other codes in transparent mode with programmable bit ranges.
- **Broad frequency range support** — Our devices also support all license-free ISM frequency bands (5.8 GHz, 2.4 GHz, 868 to 928 MHz, 433 MHz, and 315 MHz) so you can design products that target a wide range of proprietary wireless industrial and consumer applications.
- **High sensitivity** — Low-IF receivers provide high selectivity, blocking and low intermodulation, eliminating the need for bulky blocking surface acoustic wave (SAW) filters in remote control units.
- **Low current consumption** — In operation, idle, and sleep mode for long battery lifetime.
- **Adjustable output power** — Transceiver devices support a power output range from 0 to 10dBm; the output can be adjusted and stabilized with external resistors. For higher output power at 2.4 and 5.8 GHz additional Atmel power amplifiers are recommended.

Smart RF Devices

Device Family	Summary Benefit	Applications	Technologies	Key Parameters
<u>PAs</u>	Higher frequencies	Low power amplifiers		2.4 and 5.8 GHz
<u>Receiver ICs</u>	High-performance	Custom solutions		
<u>Transceiver ICs</u>	Fast challenge-response crypto functionality Low power	Bidirectional remote control and access control systems		
<u>Transmitter ICs</u>	Highly integrated microtransmitters	battery-powered	AVR Microcontrollers	Up to 1 MIPS per MHz

applications
such as Remote
controls or
garage door
openers

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