

ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 kB Flash, 32 kB RAM

JN5179

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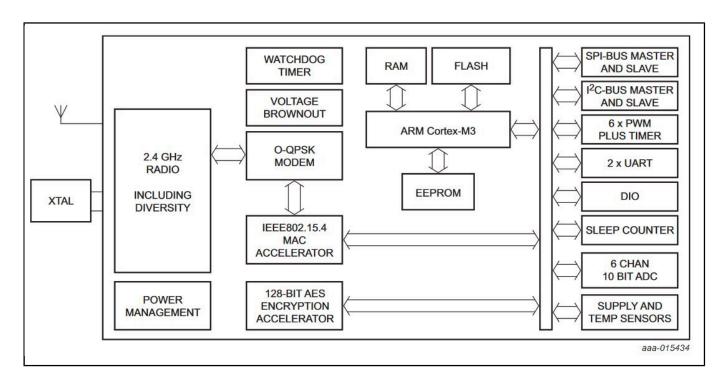
Note: JN5189/88T is preferred for any new Zigbee®, Thread design. No new software releases planned

The JN5179 device is an ultra-low-power, high-performance wireless microcontroller, optimized as a platform for ZigBee 3.0 applications in Smart Home and Smart Lighting networks. It features an Arm® Cortex®-M3 processor with debug and programmable clock speeds. The JN5179 device has 512 kB of embedded Flash memory as well as 32 kB of RAM and 4 kB of EEPROM. The embedded Flash can support "Over-The-Air" firmware updates. The device also includes a 2.4 GHz "IEEE802.15.4 compliant" transceiver and a comprehensive mix of on-chip analog and digital peripherals.

The radio transmit power is configurable up to +10 dBm output. The very-low receive operating current (down to 12.7 mA in normal operation and 0.6 μ A in sleep mode) results in long battery life, allowing operation directly from a coin cell. Through its power-saving modes, the device is therefore ideal for battery-powered nodes. The on-chip peripherals include a fail-safe I²C-bus, SPI-bus ports (both leader and follower) and a 6-channel analog-to-digital converter, directly supporting a wide range of applications without the need for extra hardware.

For support documentation, please click here.

JN517x Block Diagram Block Diagram



View additional information for ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 kB Flash, 32 kB RAM.

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