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# ZigBee Lighting/Sensor Node Expansion Kit

**JN5169XK020** Receive alerts ⓘ



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Note: JN5189/88T (/products/wireless-connectivity/thread/jn5189-88-t-high-performance-and-ultra-low-power-mcus-for-zigbee-and-thread-with-built-in-nfc-option:JN5189\_88\_T) is preferred for any new design. No new software releases planned

The JN5169XK020 expansion kit contains components that form a ZigBee node based on the NXP® JN5169 wireless microcontroller. The node provides lighting and sensor functionality. It can participate in a ZigBee wireless network which may, for example, be created using components of the JN516x-EK004 (/products/no-longer-manufactured/zigbee-evaluation-kit-with-nfc-commissioning:JN5169HA) or JN516x-EK001 ZigBee Evaluation Kit. It can be introduced into the network via ZigBee commissioning or, optionally, via NFC commissioning using the NTAG® I²C kit (available separately).

### Pre-programmed software:

The JN5169 module supplied in this kit is pre-programmed as a Dimmable Light for use in the ZigBee Smart Home Demonstration provided in the JN516x-EK004 (/products/no-longer-manufactured/zigbee-

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**ZigBee Lighting/Sensor Node Expansion Kit**

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## Supported Devices

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### Wireless Connectivity

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Zigbee

- **JN5169** (/products/wireless-connectivity/zigbee/zigbee-and-ieee802-15-4-wireless-microcontroller-with-512-kb-flash-32-kb-ram:JN5169): ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 KB Flash, 32 KB RAM

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## Features

Microcontroller

JN5169 MCU

- With integrated PCB antenna
- 2.4 GHz operation

Connectivity

- USB cable for connecting the node to a PC (e.g. for programming purposes)
  - Adaptor (OM15044) for connecting an NTAG<sup>®</sup> I<sup>2</sup>C antenna board (not included) to the Carrier Board
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## Sensors

- Light sensor
- Humidity/temperature sensor

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### Expansion Port

- Carrier Board (OM15043) to accommodate the expansion board and JN5169 module
- Lighting/Sensor Expansion Board (DR1175) featuring white dimmable LED cluster

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RGB color LED module

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## Target Applications

- ZigBee On/Off Light
- ZigBee Colour Light
- ZigBee Dimmable Light
- ZigBee Colour Dimmable Light
- ZigBee Extended Colour Light
- ZigBee Colour Temperature Light
- ZigBee On/Off Ballast
- ZigBee Dimmable Ballast