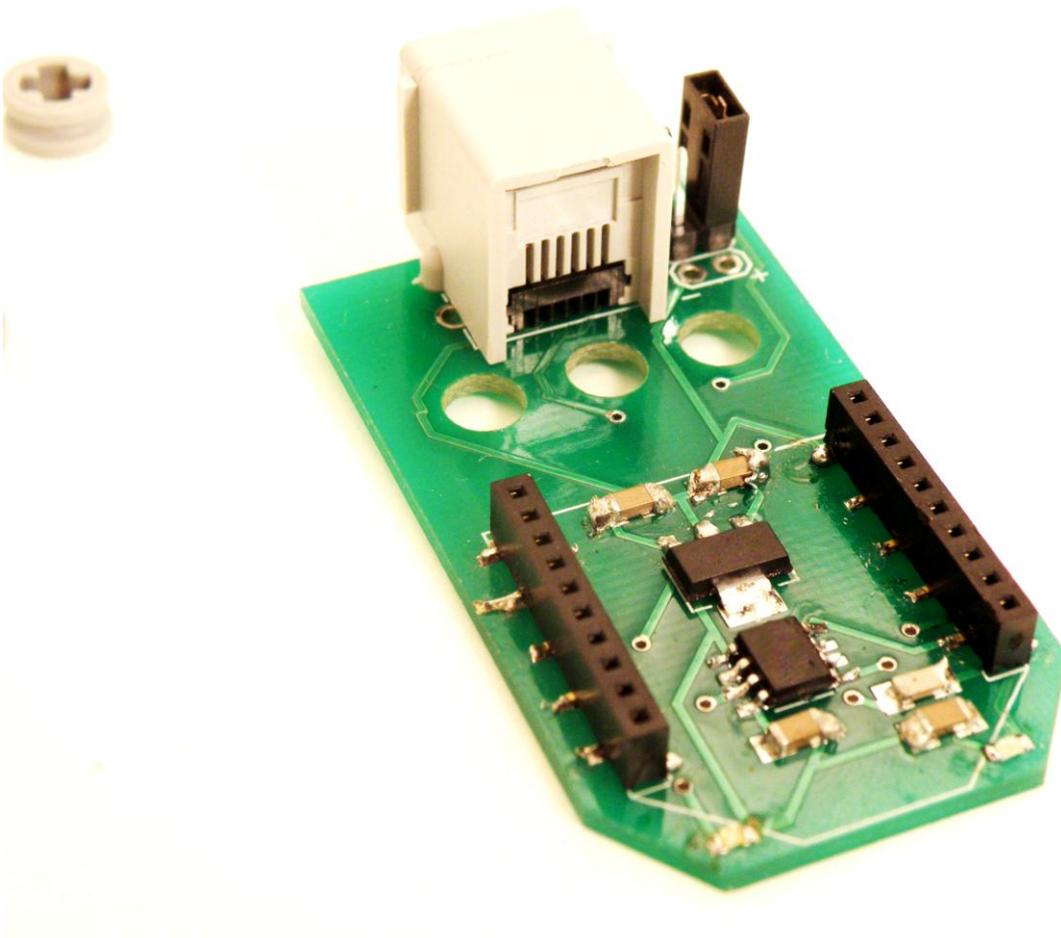


Руководства по использованию и примеры кода можно найти по ссылке:
<http://www.dexterindustries.com/download.html#dLight>

NXTBee without XBee module



- Fast, long distance wireless communications for the LEGO® MINDSTORMS® NXT.
- Communicate Far: Send data over 1 KM away.
- Communicate Fast: High speed communication between NXT's and other devices.
- Communicate Wide: Talk to multiple NXTs, other devices and robots.
- Communicate Easily: Minimal configuration.
- Advanced options for secure and mesh networking.
- See what we've done with the NXTBee [here](#).

Detailed Description

The Dexter Industries NXTBee sensor brings the Digi XBee radios to the LEGO® MINDSTORMS® NXT! Wireless communication between NXT's. These high-speed long-distance radios allow your NXT to communicate with any other device with an XBee radio. The XBee 802.15 communication protocol is the standard for robots everywhere.

The XBee radio system is a versatile communication solution for the Mindstorms NXT system. The performance of the NXTBee greatly exceeds Bluetooth, infrared, and other forms of communication currently available for the NXT.

Communicate Farther: The NXTBee can send information up to 300 ft and the NXTBee PRO up to 1.2 km. That's 10 times farther than bluetooth or IR.

Communicate Faster: The NXTBee utilizes the NXT's high speed RS-485 line for high speed communication.

Communicate Wider: The NXTBee uses the XBee protocol which includes point to point networking and mesh networking.

Mesh: One of the most exciting aspects of the NXTBee is its ability to mesh network. Mesh networking is the ability of devices to "mesh" together. NXTBee automatically finds other XBee radios (other NXTBee's or devices using XBee's) and can relay information to them and between them with no setup: they do it automatically. XBee radios pass on data and information from other XBee's, allowing further and more reliable information to be passed. You can create a whole network of 65,000 different devices talking to each other!

Video

Downloads

Visit our [Downloads section](#) for blocks, example programs, and projects for the NXTBee.



More on the NXTBee Sensor

See the Dexter Industries NXTBEE Sensor Playlist on Youtube [playlist](#).

Technical Specs

Performance: NXTBee

- Power output: 1mW (+0 dBm) North American & International version
- Indoor/Urban range: Up to 100 ft (30 m)
- Outdoor/RF line-of-sight range: Up to 300 ft (90 m)
- Operating frequency: 2.4 GHz
- Receiver sensitivity: -92 dBm

Performance: NXTBee-PRO

- Power output: 63 mW (+18 dBm) North American version
- Indoor/Urban range: Up to 300 ft (90 m)
- Outdoor/RF line-of-sight range: Up to 1 mile (1.6 km) RF LOS
- Operating frequency: 2.4 GHz
- Receiver sensitivity: -100 dBm (all variants)

Networking

- Networking topology: Point-to-point, point-to-multipoint, & peer-to-peer
- Error handling: Retries & acknowledgements
- Filtration options: PAN ID, Channel, and 64-bit addresses
- Channel capacity:
- NXTBee: 16 Channels
- NXTBee-PRO: 12 Channels
- Addressing: 65,000 network addresses available for each channel

Certifications: FCC, IC, Europe/ETSI, Australia/Ctick.

More technical specs for the XBee and Xbee-Pro can be found in the XBee/XBee Pro User Guide:[here](#).