



# Makeblock mBuild infrared module, 940 nm, NEC protocol, 6 m range, 40 mA, 24x24x15 mm, 3 g

Makeblock mBuild infrared module, 940 nm band, transmission distance 6 m, wireless communication The Makeblock mBuild infrared modu...

**Product number** MKB-P3030018

**Weight** 0.033kg



## Product description

### mBuild infrared module

This infrared module (IR transceiver) from the mBuild series enables the transmission and reception of signals in the 940 nm range. It works according to the NEC protocol, which is often used in remote control applications, and is particularly suitable for simple data transmissions in educational systems.

The module is ideal for remote control functions, signal transmission between robots or as an IR interface to external devices. Thanks to its mBuild compatibility, it can be easily integrated into existing systems, for example for control via IR remote controls.

It can be used both as a transmitter and a receiver and supports distances of up to 6 metres.

### Features at a glance

- Infrared communication with 940 nm wavelength
- NEC protocol for reliable signal processing
- Transmitter and receiver in one module

### Compatibility with

- mBuild platform
- mBot2, CyberPi

### Typical combinations

- CyberPi - as a control centre with IR reception
- mBot2 - remote control via IR module
- Other mBuild modules - for combined signal processing

### Technical data



- Wavelength: 940 nm
- Protocol: NEC
- Transmission distance: 6 m
- Reception range: 6 m
- Dimensions: 24 × 24 × 15 mm
- Weight: 3 g
- Operating current: 40 mA
- RoHS compliant

#### Connections

- mBuild port (via standardised mBuild connection cable)

#### Downloads

<https://mblock.cc/pages/downloads>

#### Scope of delivery

- 1× mBuild infrared module
- 1× mBuild cable

#### mBlock IDE

Simple programming with blocks and Python

The mBlock IDE is a web-based programming environment that is based on Scratch 3.0 and was specially developed for the education sector. It enables block-based programming for beginners and text-based coding with Python for advanced users.

- Intuitive drag-and-drop interface with visual programming blocks
- Direct switch to Python mode for advanced users
- Supports various hardware such as mBot, CyberPi, Arduino, micro:bit
- Integration of AI and IoT functions such as image recognition or cloud data
- Can be used across platforms in the browser or as a desktop app

#### Try it out directly

<https://ide.mblock.cc/>

## Product properties

<b>Gross Weight (kg)</b>	0.033
<b>Zolltarifnummer</b>	85414900
<b>Country of Origin</b>	China
<b>Brand</b>	Makeblock
<b>Product ID</b>	MKB-P3030018
<b>EAN</b>	6928819512627
<b>Manufacturer ID</b>	P3030018



## More images

