MinION Mk 1B

Quick start guide

This Quick start guide contains everything you need to set up your MinION™ Mk1B and to check that the device is ready for use.

For detailed information and troubleshooting, view the user manual.

Pre-installation

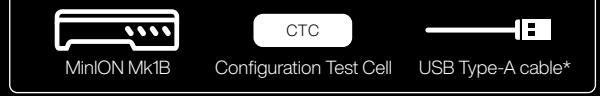
Before using the device, familiarise yourself with the following:

IT requirements
community.nanoporetech.com/to/minion-it

MinION Mk1B user manual
community.nanopore.com/to/minion

Safety and regulatory information
community.nanoporetech.com/to/safety

What's in the box:

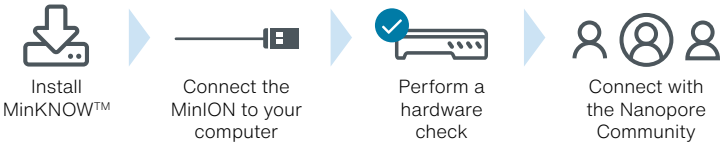


*Requires USB 3.0 speeds or greater

1

Overview

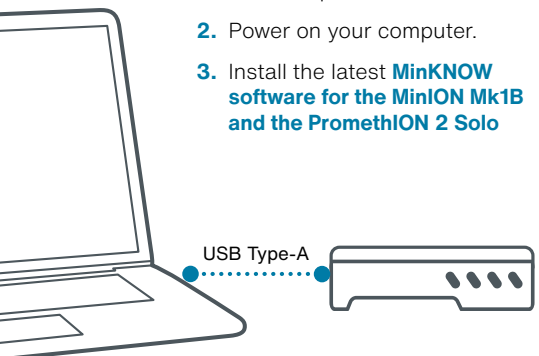
To start, check that your hardware is working.



2 **Install** and log in to MinKNOW

Computer:

1. Check that the computer you are using meets the IT requirements.
2. Power on your computer.
3. Install the latest **MinKNOW software for the MinION Mk1B and the PromethION 2 Solo devices** from the Software Downloads page on your computer. Once the software is installed, click the Nanopore wheel icon that appears on the desktop.
4. Log in to MinKNOW using your Nanopore account details.



Software downloads
community.nanoporetech.com/downloads

3 **Set up your** MinION Mk1B

1. Connect the MinION to the computer USB Type 3.0 port using the USB Type-A cable provided.
2. Insert the Configuration Test Cell (CTC) as shown.
3. Close the MinION lid.

Note: The MinION lights and fan will now power on after you connect your computer.

4 Perform a **hardware check**

A **hardware check** is required before performing your first MinION Mk1B sequencing run. To run a hardware check, follow the on-screen instructions in MinKNOW, then follow the instructions below. You will require your CTC.

My device Connection manager → **Start** in side bar → **Hardware check** in main panel

1. In the MinKNOW software, the flow cell status indicator will change colour from grey to white on inserting the MinION CTC into the MinION Mk1B.
2. Click the white box under the MinION positions panel. This will change the colour of the flow cell status indicator on the MinKNOW hardware check panel to dark blue.
3. Press **Start** in the bottom right.
4. Check the flow cell position in MinKNOW shows a ✓ to pass the hardware check.
5. Remove the CTC after you complete the hardware check.

Note: If your hardware check fails, see Support in Additional information.

5 Discover the **Nanopore Community**

community.nanoporetech.com

Ensure the success of your nanopore sequencing project and stay up-to-date with the latest technology and protocol updates.

Follow the link to Getting Started with your experiments to begin sequencing: **community.nanoporetech.com/to/minion-lab**

Tip: Learn how to analyse your nanopore data at: **nanoporetech.com/analyse**

Additional information

Warranty
A license and warranty can be purchased for your device here:
store.nanoporetech.com/device-warranty.html
Flow cell warranty: **community.nanoporetech.com/to/warranty**

Recycle used flow cells
Oxford Nanopore is committed to environmental sustainability.
You can help by sending your flow cells for recycling.
Find out how: **community.nanoporetech.com/support/returns**

Place your next order
Buy more consumables at the Oxford Nanopore Store:
store.nanoporetech.com

Documentation
Documentation for your device is available on the Nanopore Community:
community.nanoporetech.com/docs

Support
For all of your customer and technical support needs, visit:
community.nanoporetech.com/support

Technical specification

	MinION Mk1B
Model number	MIN-101B
Supply voltage (V)	5 DC
Maximum rated current (A)	1.0
Maximum rated power (W)	5
Size (H x W x D) (mm)	23 x 33 x 105
Weight (g)	100
Installation ports	1 x USB Type-B
Software installed	MinION driver*
Compute specification	N/A
Environmental conditions	Functional range of electronics is within environmental temperatures of +5°C to +40°C. Use within 30%–75% relative non-condensing humidity limits. Designed to sequence in environmental temperatures of +18°C to +25°C. Intended for indoor use. Can be used up to altitudes of 2,000 m. The device has a Pollution Degree 2.

*Device drivers are used to correctly configure a computer that the device is plugged in to.

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