



PromethION

Flexible, high-output, real-time sequencing for every lab



“Oxford Nanopore’s long-read sequencing capability creates a window into parts of the genome that have been out of reach, as well as giving us a much better handle on structural variants that confer risk of a wide variety of diseases.”

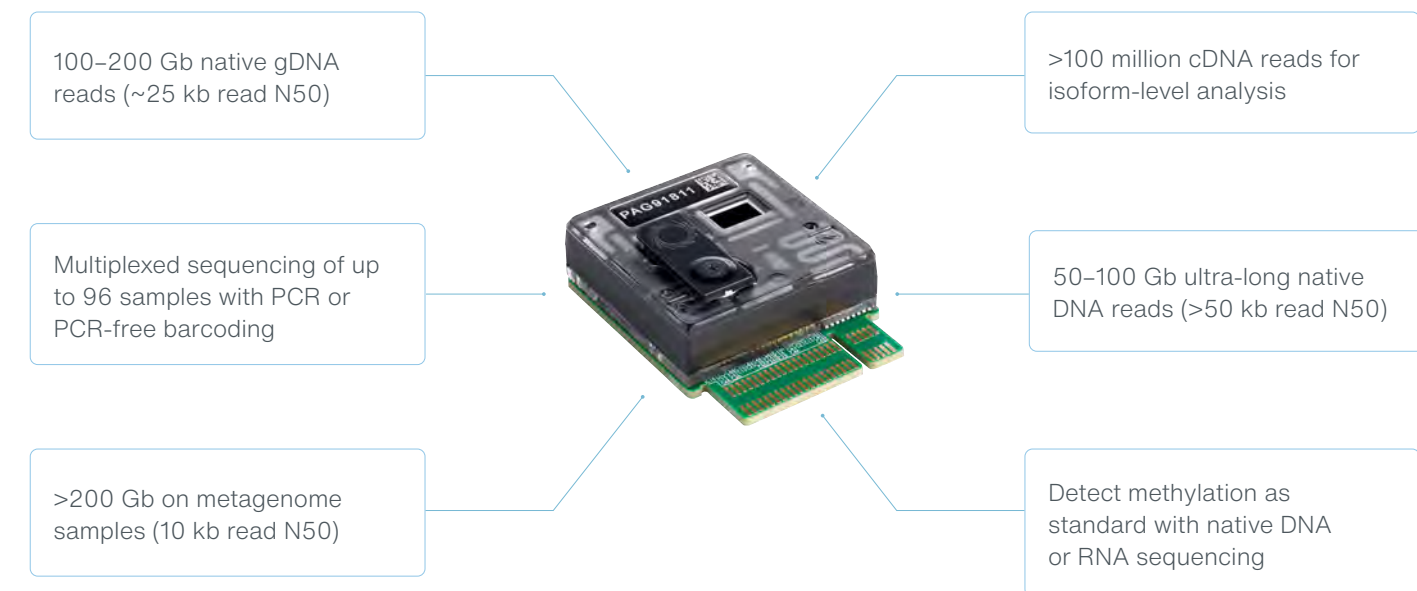
Kári Stefánsson
CEO, deCODE Genetics

“Gotta love the plug and play nature of the @nanopore #PromethION. Very convenient with many users in the lab.”

Rasmus Kirkegaard
Aalborg University

What could you do with one PromethION™ Flow Cell?

Only nanopore sequencing combines real-time data delivery with the ability to reveal accurate, rich biological data through the analysis of short to ultra-long fragments (20 bases to >4 million bases) of native DNA or RNA.



Assembly



SNPs & phasing



Structural variants



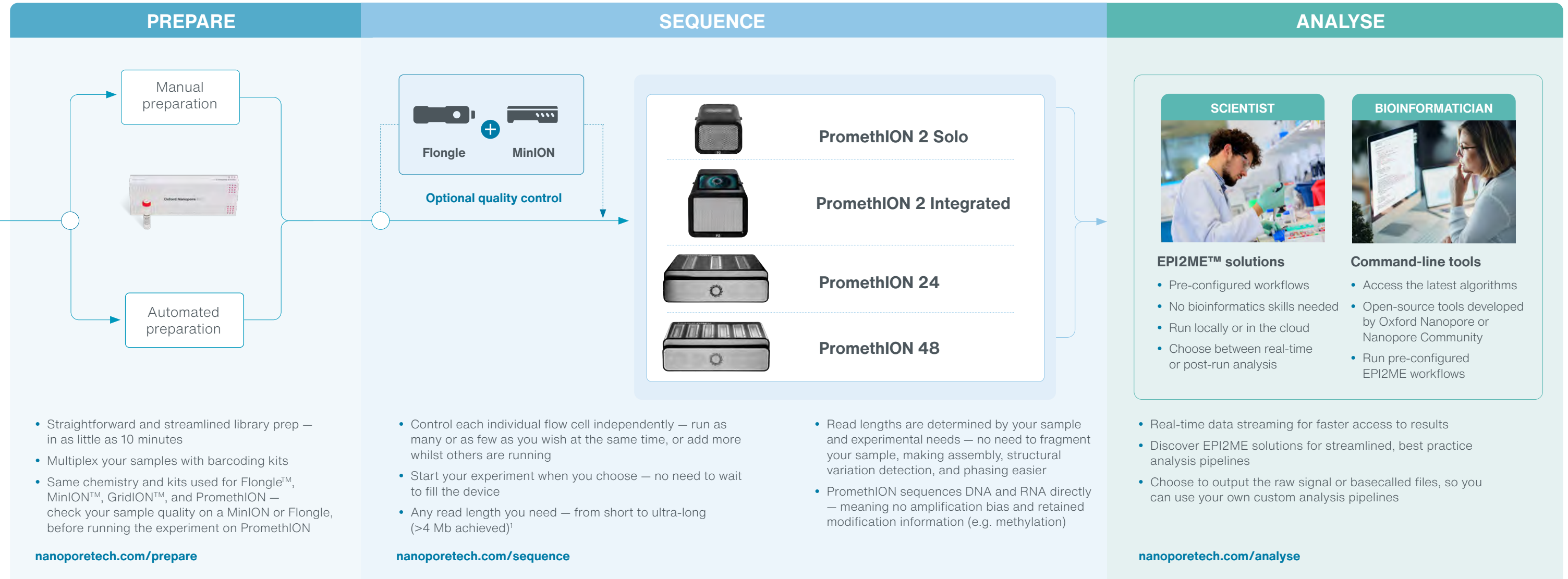
Methylation



Gene expression & single cell

[View applications](#) nanoporetech.com/applications

A streamlined end-to-end sequencing workflow — real-time insights at any scale



1. Internal data generated using the Ultra-Long DNA Sequencing Kit.

PromethION 2 Solo and PromethION 2 Integrated

Low-cost access to high-output PromethION sequencing

Offering the flexibility of two independent, high-output PromethION Flow Cells, the compact PromethION 2 devices deliver the benefits of high-coverage nanopore sequencing to users with lower sample processing requirements. Get fully integrated sequencing and analysis with PromethION 2 Integrated or expand your GridION/existing compute infrastructure with PromethION 2 Solo.

Two high-output flow cells can be operated individually or together for flexible, on-demand sequencing

Connect to GridION or existing compute infrastructure



High-resolution touchscreen display allowing complete device control

Standalone, fully integrated device with powerful GPU for onboard data analysis

PromethION 2 Solo

PromethION 2 Integrated



Service provider certification is available for PromethION devices

Specification		
Weight 1.5 kg	Size W 110 mm H 87 mm D 152 mm	Compatible with PromethION Flow Cells

Specification		
Weight 10.6 kg	Size W 180 mm H 225 mm D 430 mm	Compatible with PromethION Flow Cells

Order now store.nanoporetech.com

PromethION 24 and PromethION 48

Flexible DNA/RNA high-throughput nanopore sequencers

Offering the flexibility of 24 independently controllable, high-output flow cells and leveraging state-of-the-art algorithms and GPU technology, PromethION 24 (P24) provides single or multiple users with on-demand access to terabases of sequencing data. PromethION 48 (P48), our most powerful sequencing device, delivers twice the capacity and output of P24 — ideal for large- and production-scale sequencing projects.

24 (P24) or 48 (P48) flow cells can be operated individually or together for flexible, on-demand sequencing



Sequencing Unit

Data Acquisition Unit

Real-time, on-board basecalling for sequencing at scale

Library added to flow cell here



Each flow cell comprises up to 2,675 active channels



Service provider certification is available for the PromethION devices



Specification

	Weight	Size	Compatible with
Sequencing Unit	28 kg	W 590 mm H 190 mm D 430 mm	PromethION Flow Cells
Data Acquisition Unit	26 kg	W 178 mm H 440 mm D 470 mm	

Order now store.nanoporetech.com

Choose your PromethION purchase plan



	PromethION 2 Solo		PromethION 2 Integrated		PromethION 24		PromethION 48	
	Starter Pack*	CapEx†	Starter Pack*	CapEx†	Starter Pack*	CapEx†	Starter Pack*	CapEx†
PromethION device	1	1	1	1	1	1	1	1
Flow cells	8		48		192		288	
Sequencing kits	2		8		42		48	
Wash kits	1		2		20		30	
Software licence and device warranty‡	12 months	12 months	12 months	12 months	12 months	12 months	12 months	12 months
Assurance and familiarisation			✓ Remote	✓ Remote	✓ On site	✓ On site	✓ On site	✓ On site
Advanced Nanopore Training (see page 13)					✓	✓	✓	✓
	\$10,455	\$15,445	\$59,995	\$79,995	\$225,000	\$340,000	\$310,000	\$450,000

* Loan device.

† Device purchase.

‡ Extended warranties available.

Get started quickly with comprehensive support

Our experienced technical services team are dedicated to supporting your success and will be with you every step of the way as you set up and start using your PromethION device.



Nanopore Community <ul style="list-style-type: none"> Available to all our customers Access the latest protocols and product updates Post questions to other users Access Technical Support 			
Pre-delivery remote consultation <ul style="list-style-type: none"> PromethION installation assistance PromethION configuration assistance Experimental workflow discussion and guidance 			
Assurance and familiarisation <ul style="list-style-type: none"> Installation and configuration review Hardware check Continued project and technical discussions Confirmation of consumable shipment schedules 		 Remote	 On site
Post-assurance follow-up <ul style="list-style-type: none"> Project progress review Q&A 			

PromethION Advanced Training

All PromethION 24 and 48 purchase plans include PromethION Advanced Nanopore Training – a comprehensive, personalised course for up to four attendees. An Oxford Nanopore expert will provide in-depth technology training with practical hands-on experience, running up to four of your own samples.

	PromethION Advanced Nanopore Training
Location*	Oxford Nanopore labs, your site, or online
Duration	2.5 days
Experimental design and QC	
Library preparation	1x control + up to 4 user samples
Flow cell priming and loading	
Configuring and running the PromethION	
Introduction to basecalling, analysis tools, and resources	
Flow cells included	8
Sequencing kits included	2

* Third party reagents are provided only when training at Oxford Nanopore labs.

Training also available as a standalone package for new starters and PromethION 2 Integrated users.

Product specifications

PromethION 24/48

Sequencing Unit

- Up to 24 (P24) or 48 (P48) independent flow cells
- Up to 72 hour run time

Weight	Dimensions
28 kg	W 590 mm H 190 mm D 430 mm

Data Acquisition Unit

- 2.2 kW max power consumption
- 60 TB SSD data storage
- 512 GB RAM
- Latest generation CPU
- 4 x NVIDIA Ampere architecture GPUs
- Preloaded with Ubuntu OS and MinKNOW™
- Dual 10 Gbps fibre or ethernet connection

Weight	Dimensions
26 kg	W 178 mm H 440 mm D 470 mm

PromethION 2 Solo

- Up to two independent flow cells
- Up to 72 hour run time
- 100–240 V 50/60 Hz AC power outlet
- Use GridION or existing compute infrastructure

See recommended compute at:
community.nanoporetech.com/to/techspec

Weight	Dimensions
1.5 kg	W 110 mm H 87 mm D 152 mm



PromethION Flow Cell

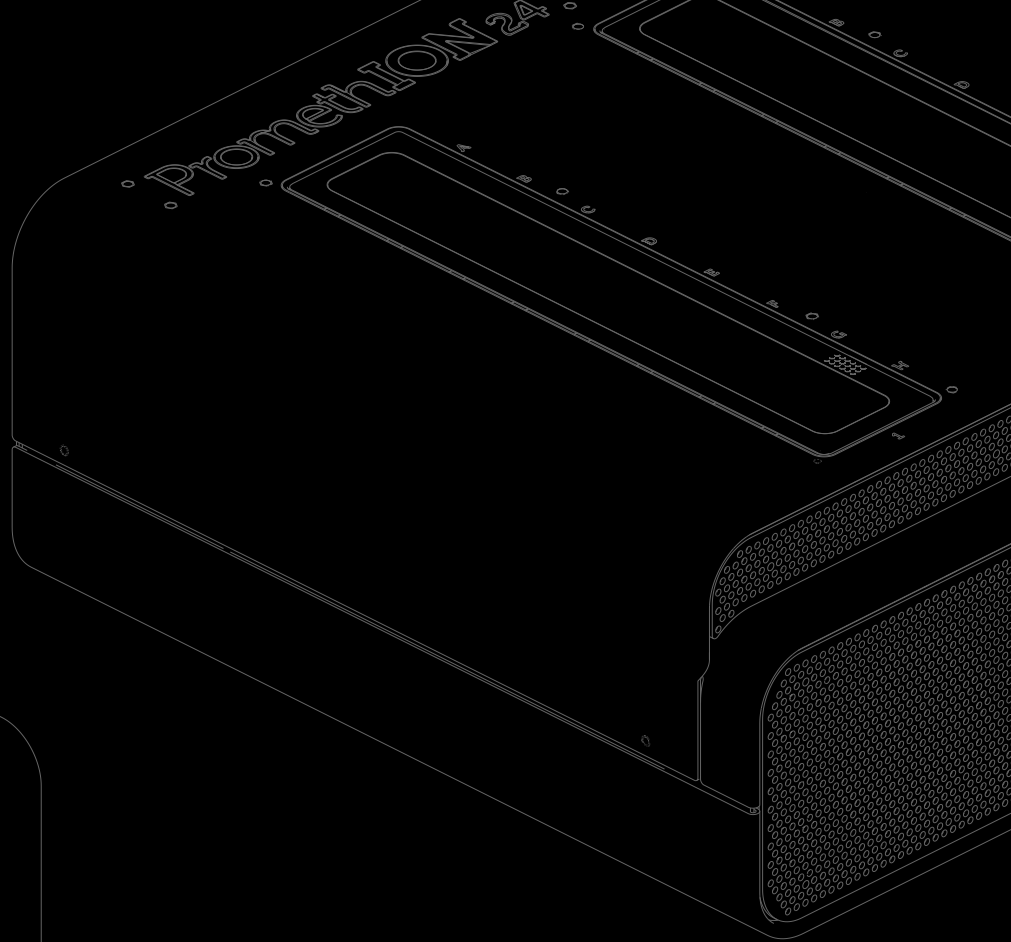
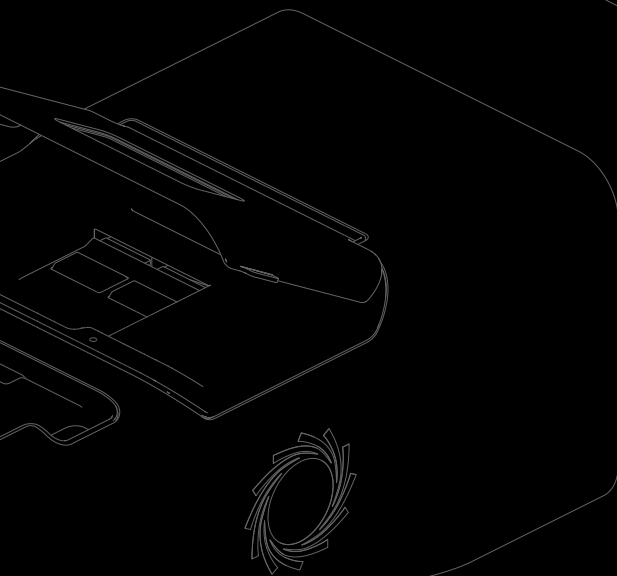
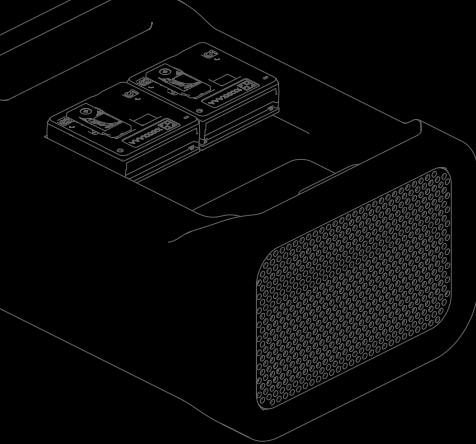
- Each flow cell delivers approximately six times the sequencing capacity of a MinION Flow Cell
- 2,675 channels per flow cell can be sequencing at once
- 100–200 Gb native gDNA reads per flow cell (read N50 ~25 kb)

PromethION 2 Integrated

- Up to two independent flow cells
- Up to 72 hour run time
- 750W maximum power consumption from mains power (100–240 V 50/60 Hz)
- Latest generation CPU and NVIDIA Ampere GPU
- 15 TB SSD data storage
- 64 GB RAM
- 2.5 Gbps ethernet connection

Weight	Dimensions
10.6 kg	W 180 mm H 225 mm D 430 mm

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