



Oxford
Nanopore
Technologies

GridION

Oxford Nanopore sequencing designed for
use in regulated and applied environments



What is GridION™ Q?

The GridION Q and its consumables have been specifically developed to support labs that require routine sequencing in a tightly controlled set-up, helping maintain good manufacturing process (GMP) compliance and end-user alignment with 21 CFR Part 11 and EU GMP Annex 11.

GridION Q delivers all the benefits of multidimensional Oxford Nanopore sequencing together with long-term configuration maintenance, empowering labs to choose when to update their workflows.

- **Compliant and secure**

Human-readable audit trails, user authentication, data encryption, and laboratory information management system (LIMS) integration

- **Reproducible and qualified**

Built under the Oxford Nanopore quality manufacturing system with change control and defined version support timelines

- **Reliable and supported**

Transparent product lifecycles with optional upgrade pathways

- **Modular and scalable**

A single platform consolidating multiomic answers into one streamlined data-rich workflow

- **Rapid and real time**

On-demand sequencing delivering insights in hours

Enhance your routine workflows

Develop your own application workflows

GridION Q, together with a range of compatible consumables, enables rapid, scalable analysis of DNA or RNA molecules of any length — from short to ultra-long — generating rich data in real time.

Example biopharma applications	Example clinical research applications
mRNA quality control (assess identity, integrity, and purity in one test)	Microbial whole-genome sequencing
Plasmid quality control	Microbial metagenomics
Sterility testing	Full-length 16S sequencing
Insertion site analysis	Targeted human gene panels

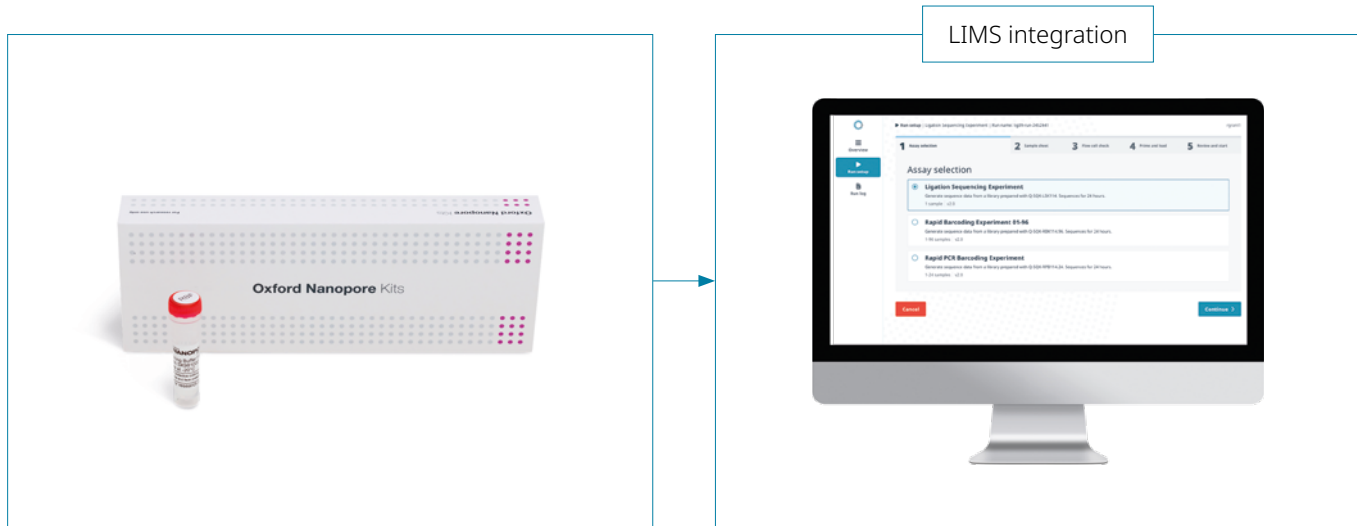
Run pre-configured workflows

GridION Q also supports pre-configured workflows using dedicated test packs, which include application-specific analysis pipelines. Contact your local sales representative to learn more.



The GridION Q solution

A complete solution, delivering streamlined library prep, on-demand sequencing, and real-time analysis with a dedicated user interface.



Prepare

- Streamlined library prep
- Sample multiplexing for cost-efficient results
- PCR-free workflows to eliminate bias
- PCR-based options for low inputs

View all library prep kits at
nanoporetech.com/gridion-q

Configure

- Intuitive user interface streamlines sequencing set-up
- LIMS integration for seamless data transfer
- Pre-configured assays for rapid set-up and analysis
- Design and lock custom assays for routine sequencing



GridION Q

Home

Instrument Qualification Status

Run Quality

Bases Sequenced		Overall Accuracy	
0.00 Gb		99.99% (Q30: 14.26)	

Sample Details - Controls

Alias	Barcode	Input File Count	Read Count	Mean coverage
NTC3	barcode08	0	0	0.0
NTC2	barcode04	0	0	0.0
NTC1	barcode03	0	0	0.0
NTC4	barcode08	0	0	0.0

Sample Details - Test Samples

Alias	Barcode	Input File Count	Read Count	Mean coverage
Sample3	barcode05	0	2957	992.74
Sample1	barcode01	0	8478	1021.74
Sample4	barcode07	0	9803	1713.52
Sample2	barcode02	0	13005	1024.76

Sequence

- GridION Q device running five independent flow cells
- On-demand sequencing without sample batching
- Direct sequencing of native DNA/RNA
- Integrated compute for local analysis
- Features that support end-user alignment with 21 CFR Part 11 and EU GMP Annex 11

Analyse

- Real-time data streaming for immediate access to results
- Scheduled reporting provides curated insights at defined timepoints
- On-device barcode balancing to meet your coverage goals
- Standard FASTQ and BAM output formats for further downstream analysis
- Flexible sequencing run time and reusable flow cells

Reliable and secure operation

GridION Q benefits from long-term support for released configurations, helping labs maintain validated workflows over time. Features compatible with computer system validation (CSV) processes and that support end-user alignment with 21 CFR Part 11 and EU GMP Annex 11 help maintain data integrity.

Key features

- Simple interface with minimal user interaction
- Closed system with human-readable audit trails
- Whole-device encryption at rest
- Permission-based access with authentication system integration
- Installation qualification (IQ) and operational qualification (OQ) included as part of standard installation, with optional instrument performance verification (IPV)
- Bidirectional LIMS compatibility for sample sheet import and data offload



ISO 9001:2015 certification

The manufacturing process for GridION Q devices and its consumables has been certified to the ISO 9001:2015 standard. The process includes verification of basecalling standard nucleotides, sample demultiplexing, and output of BAM and FASTQ files.

The calling of non-standard nucleotides (e.g. methylated bases), reference alignment, and the use of downstream analysis tools are enabled. Contact your local sales representative for more information.

Rapid access to comprehensive support

Purchase of the GridION Q includes one year of the Standard Plan, providing comprehensive and rapid support to enable confident integration into routine workflows.

Upgrade to the Enhanced Plan for 24-hour support, five days a week, along with priority response and comprehensive training for added reassurance. Pricing available on request.

	Standard Plan	Enhanced Plan*
On-site installation (includes IQ/OQ, IPV optional)	✓	✓
Training		Two-day on-site training
Email / chat support	Mon–Fri, 9:00–17:00 (local time)	Mon–Fri, 24 hours† (prioritised response)
Phone support		✓
On-site repairs and replacement	✓	✓
Sequencer loan during prolonged downtime		✓
Preventative maintenance visit‡	Paid option	✓
Documentation support		✓
Service-level agreement response time‡		✓

*Enhanced Plans are only available in selected countries; please contact your local sales representative for more information.

†Visit nanoporetech.com/support-plans for full details of Enhanced Plan support hours and service-level response time.

‡Additional maintenance visits can be purchased if required.

All information correct at time of publication. May be subject to change.

Learn more about GridION Q
nanoporetech.com/gridion-q





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