

High performance computing systems for Oxford Nanopore MinION and PromethION

Optimizing Data Processing, Analysis and Scalability for NGS Users

Feature	GT GPU Mobile	GT GPU Mobile Pro	GT GPU Mini	GT GPU Mini Pro	GT GPU Pro	GT GPU Pro Plus	GT GPU Server	GT GPU Server Plus
Portability	Portable	Portable	Compact & concise	Compact & powerful	Desktop	High-performance Desktop	High-Performance Server	Extreme Performance Server
Storage Capacity	Regular	Moderate	Significant	High	Large	Very Large	Massive (~16,036 Human Genomes fasta)	Massive (~20,606 Human Genomes fasta)
Basecalling Speed Live/Offline	Fast	Ultra Fast	Ultra Fast	Rapid	Ultra Rapid	Ultra Rapid	Ultra Rapid	Ultra Rapid
Basecalling Accuracy	FAST, HAC	FAST, HAC	FAST, HAC	FAST, HAC	FAST, HAC & SUP	FAST, HAC & SUP	FAST, HAC & SUP	FAST, HAC & SUP
Genome Analysis Capability	Small bacterial & viral genomes	Bacterial, viral, small fungal genomes	Bacterial & viral, fungal genomes & small genome de novo assembly	Viral, Bacterial, Archaea, fungal & insects	Viral, Bacterial, Archaea, Large fungal, plant & human genomes	Viral, Bacterial, Archaea, Large fungal, Insect, plant & human genomes	Viral, Bacterial, Archaea, Large fungal, Insect, large plant & human genomes	Population-scale genomics & large multi-species datasets
Genome Size Capacity	Up to 280Mb	Up to 450Mb	Up to 800 Gb	Up to 800 Gb	Up to 3.5Gb	Up to 3.5Gb	Up to 5-8Gb	All genomes
Use Cases	Basic sequencing & Analysis	Larger bacterial genomes Sequencing & Analysis	Metagenomics, exome sequencing & Analysis	Multi-sample sequencing & Analysis	Whole genome sequencing & Analysis	Large-scale sequencing & Analysis	High-throughput sequencing & Analysis	All genome sequencing & Analysis
Nanopore Device Compatibility	Mk1B & Mk1D	Mk1B, Mk1D & P2 Solo	Mk1B & Mk1D	Mk1B, Mk1D & P2 Solo live basecalling support	Mk1B, Mk1D & P2 Solo	Mk1B, Mk1D & P2 Solo	P2 Solo, Mk1B, Mk1D & High-throughput sequencing	P2 Solo, Mk1B, Mk1D & Extreme parallel processing
Preinstalled Nanopore sequencing Softwares	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NGS Data Compatibility	Short-read & long-read sequencing	Short-read & long-read sequencing	Short-read & long-read sequencing	Short-read & long-read sequencing	High-performance short & long-read sequencing	High-performance short & long-read sequencing	High-throughput sequencing	Extreme-scale sequencing
Storage Capacity	1TB SSD	2TB SSD	3TB SSD	8TB SSD	10TB SSD+HDD	32TB SSD+HDD	62TB SSD+HDD	62TB SSD+HDD
Multi-Sample Processing	Limited	Moderate	Moderate	High-throughput	Large batch processing	Multi-sample batch processing	High-throughput sequencing	Extreme multi-sample workflows
Additional Processing	-	Methylation Support	Direct RNA, Adaptive & Methylation Sequencing	Direct RNA, Adaptive & Methylation Sequencing	Direct RNA, Multi-Sample Adaptive & Methylation Sequencing & Analysis	Direct RNA, Multi-Sample & High-Speed Parallel Processing Adaptive & Methylation Sequencing & Analysis	Direct RNA, Adaptive & Methylation Sequencing & High-Speed Parallel Processing	Direct RNA, Adaptive & Methylation Sequencing & High-Speed Parallel Processing
RAID Support	-	-	-	-	-	Yes	Yes	Yes
Hardware Warranty	1-year pro support	1-year pro support	3-year pro support	3-year pro support	3-year pro support	3-year pro support	3-year pro support	3-year pro support



Genotypic Technology Pvt. Ltd.

#2/13, Balaji Complex, 80 ft Road, R.M.V Second Stage, Bengaluru-560094, India

 www.genotypic.co.in  gtproducts@genotypic.co.in  **+91-6364465657**

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TRAINING & WORKSHOPS

Contact us at

 **+91-99000 35744**

