

MGI·ZTRON

Data Analysis Appliance ZTRON Lite



Secure & Reliable

Deployed locally
Secure and in control



Efficient & Stable

Exclusive bandwidth
Stable data transfer



Cost-effective

Low maintenance cost
High ROI



The image is for reference only.

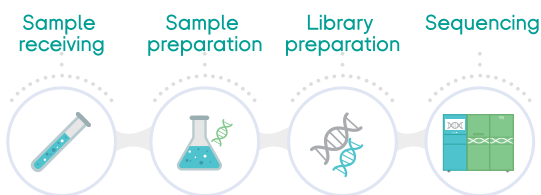
ZTRON Lite is a standard auxiliary product designed by MGI for its DNBSEQ series high-throughput sequencers. Stable data transfer is ensured due to optimal computing and storage resource configuration and exclusive bandwidth.

ZTRON Lite enables basic automatic analysis, data delivery and data governance.

Software Functions

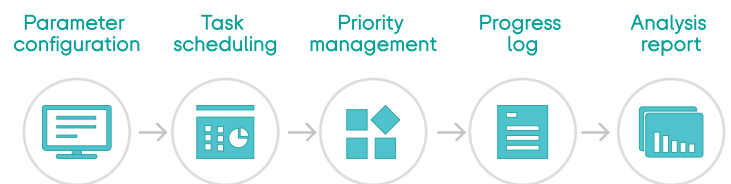
Laboratory management

Connecting multiple devices in the laboratory, making the whole process digital and intelligent



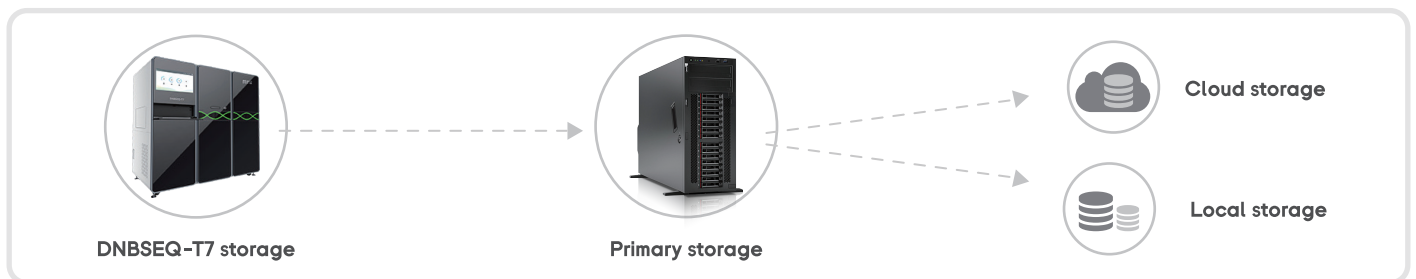
Automatic analysis

Integrated with the sequencer, multi-task scheduling, visualized data management and tracking.



Data delivery and governance

Dynamic data management is enabled via rule-based functions including automatic data delivery, automatic data deletion, etc.



One-stop Platform

Seamless and smooth coordination between DNBSEQ-T7 and ZTRON Lite



ZTRON Lite automatically converts sequencing data into FASTQ files via its built-in pipeline(write_fastq). It enables automatic data delivery and governance, which greatly saves manpower and increases efficiency. It integrates the laboratory information management system to monitor the production process in the laboratory so that the user can monitor the real-time progress and status.



Highly automated

- DNBSEQ-T7 automatically uploads .cal files to ZTRON Lite.
- ZTRON Lite then automatically converts .cal files to FASTQ files.



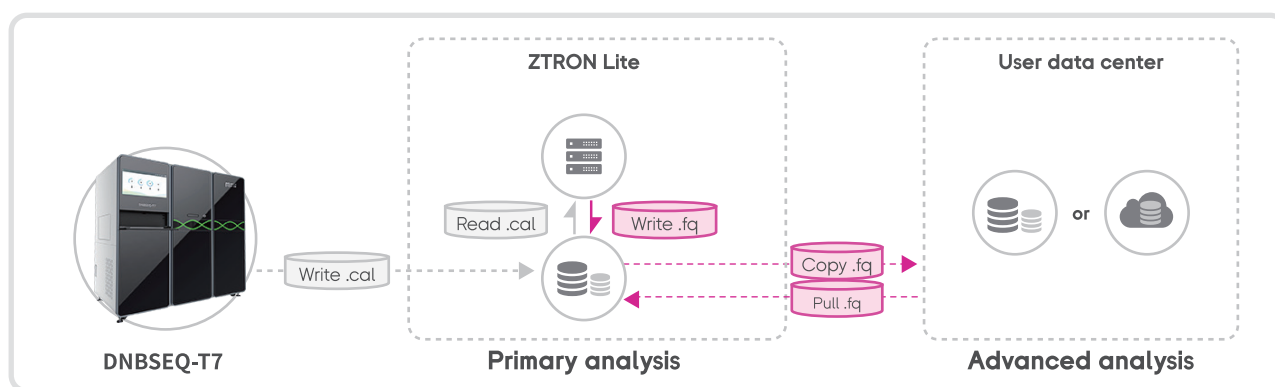
High-throughput & Efficient

- DNBSEQ-T7 generates 1~7 TB high-quality data daily. Powered by MGI' s proprietary DNBSEQ™ technology, sequencing gets more efficient.
- ZTRON Lite runs the write_fastq pipeline in about 1 hour for PE100 and in about 1.5 hours for PE150 per flow cell.

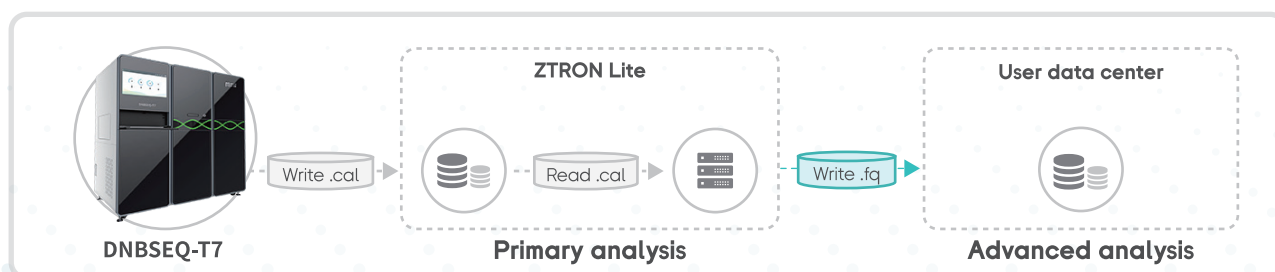
Typical Scenarios

■ 1 set of DNBSEQ-T7 + 1 set of ZTRON Lite

- **DNBSEQ-T7 outputs .cal files to ZTRON Lite.**
- **ZTRON Lite takes .cal files as input, and it can output FASTQ files in two modes:**
 1. It first outputs FASTQ files on premises and then delivers them to the user's local or cloud data center.
 2. It directly outputs FASTQ files to the user's local data center.



(Figure 1)



(Figure 2)

■ Hardware Parameters

Form Factor	Tower server
CPU	Intel Xeon Gold 5318Y 24C 165 W 2.1GHz CPU×2
Memory	16 GB TruDDR4 2933 MHz RDIMM×16
GPU	NVIDIA Quadro RTX A4500 20 GB PCIe Active GPU×1
Data Disk	2.5-inch 3.84 TB hot-swappable SAS SSD×14
OS Disk	M.2 5400 PRO 480 GB SATA 6 Gbps non-hot-swappable SSD×2
RAID Card	RAID 940-16i 8GB Flash PCIe 12Gb adapter×1
Network	10/25Gb Dual Optical Network Card×2
Fiber Optic Module	10G multi-mode module×3, 10G single-mode module×1
Power Supply	1,100 W (230/115 VAC) Platinum hot-swappable module×2
Environment	Temperature: 15 ℃ ~25 ℃ ; Relative Humidity: 20%~80%; for indoor use only
Software	Laboratory information management system, bioinformatics analysis platform and application market

■ Ordering Information

Item No.	Product Name	Specification
900-000406-00	ZTRON Lite Data Analysis Appliance	Set, RUO

Building 11, Beishan Industrial Zone,
Yantian District, Shenzhen. CHINA 518083

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