

Product image for reference only, please prevail in kind.

## Product Description

The ZTRON Pro Data Center Appliance (ZTRON Pro) is a data platform which is designed by MGI for the high-throughput sequencers. It integrates laboratory information management system (LIMS), bioinformatics accelerator and high-performance genetic data storage. ZTRON Pro can be used directly in the laboratory or in the traditional data centers. It can be deployed independently and scaled out easily. Safe and reliable, it complies with GDPR regulations and reduces IT maintenance costs.

ZTRON Pro is built in with cost-effective bioinformatics analysis accelerators, equipped with industry-leading parallel file system, automated analysis and task scheduling platform, and laboratory information management system (LIMS) to satisfy the max-capacity sequencing for million samples.

*As partner of the high-throughput sequencer, ZTRON Pro provides the following key functions:* 



ZTRON Pro integrates ZBOLT heterogeneous computing technology, which greatly improves the speed of WGS/WES secondary analysis.



## **MGI**

#### Laboratory Information **Management System**

#### Supports millions of samples' sequencing Automated sample lifecycle management

- Full life cycle traceability of samples
- Abundant work dashboard, intuitively grasp the • production situation
- Remote monitoring and early warning of equipment status
- Data quality monitoring in sequencing process
- Compatible with multiple bioinformatics • pipelines

#### PB-level high performance genetic data storage

#### High-density, large-capacity, parallel file system

#### Full life cycle genetic data management

- 500 TB or 1 PB available space for each, scale out to 100 PB
- Aggregated storage throughput is up to 7 GB/s
- Automatic data management (local storage or
- No single point of failure, high available design
- Optimized storage for genetic data

#### Application market

- 100+ tools and applications
- Open-source applications, MGI's self-devel-oped algorithms and pipelines
- Customized pipelines, flexible configurations







## **Product Highlights**

#### **High Performance**

Analysis speed 60 times faster Delivery capacity 2 times faster Large file storage acceleration



### **High Intelligence**

Automated process Flexible expansion Bioinformatics with deep learning

#### **High Cost**effectiveness

Save occupied space Reduce IT maintenance costs Reduce storage by compression algorithms

# Offline deployment

**High Security** 

Standalone network **GDPR** compliance



#### **High Availability**

Redundant protection Software fault tolerance No single point failure



## Technical Specifications

	MGI-ZTRON-PRO-T500	MGI-ZTRON-PRO-P1	
	• Single thread read speed ≥ 1.5 GB/s	• Single thread read speed ≥ 2 GB/s	
Storage	• Aggerated bandwidth ≥ 4 GB/s	• Aggerated bandwidth ≥ 7 GB/s	
	• Available space ≥ 500 TB	<ul> <li>Available space ≥ 1000 TB</li> </ul>	
	Two ZBOLT servers are included and each configuration is as follows:		
	• <b>CPU:</b> 64 core CPU or above ×2		
	• RAM: 512 GB or above		
Computing	• System Disk: 480 GB SATA M2 SSD × 2 (480 GB SATA SSD × 1)		
	• High-speed Cache: 1.92 TB NVMe SSD×2		
	• <b>GPU:</b> Nvidia Tesla T4×2		
	FPGA: Bioinformatics analysis accelerator		
	Two stacked switches are included and each configuration is as follows:		
	• 10/25 G optical port x 18, 40/100 GE optical port × 4		
Network	• 10/100/1000 M RJ45 port		
	• 10 G SR Module×5		
	• 1000BASE-T×5		
	ZLIMS Pro system		
Software	• 1Pbp WGS/WES basic analysis license (support 10,000 30x WGS human samples)		
	• WFQ pipeline, WGS and WES pipeline		
	<ul> <li>22U cabinet×1, 1200 mm (length) * 600 mm (width) * 1200 mm (depth)</li> </ul>		
Other	<ul> <li>PDU×2, use 32 A industrial plug (32 A 3P 230 V)</li> </ul>		

## Ordering Information

Part Number	Product Model	Spec
900-000444-00	MGI-ZTRON-PRO-T500	Set, RUO
900-000446-00	MGI-ZTRON-PRO-P1	Set, RUO

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