ITPOD Storage Full Flash



ITPOD

Intelligent Storage Systems

for your
digital future

itpod.com

Nowadays, when information is of great importance, Data Storage Systems (DSS) have become an integral part of any enterprise. The requirements for new systems are becoming more and more stringent due to the constant development of technology and the increasing amount of information that needs to be processed. This leads to an increase in software system requirements including compatibility, operability and processing power.

ITPOD Storage Full Flash (FF) is a line of modern classic storage systems for converged IT infrastructures. These high-performance storage systems are ideal for organizations dealing with large volumes of information, data analytics, cloud technology and multimedia files. Information is stored on reliable and high-speed NVMe SSD drives, and the systems offer high-speed performance, minimal latency and efficient utilization of multi-core processor resources. They are optimal for tasks that require fast response of the disk subsystem and stable operation under high loads.

ITPOD Storage systems are fault tolerant for up to three drives and support transactional integrity and automatic data recovery. All key components are redundant, ensuring continuous operation. And an intuitive, graphical web interface makes it easy to manage your storage resources.

When building our storage solutions, we carefully selected hardware components, implemented innovative software solutions, and worked hard to create high-quality storage. Thanks to our teamwork, we have created systems that deliver high performance, stability, and storage efficiency.

Data storage efficiency



Store petabytes of data
while reducing storage costs

Reliability



Your data will always be available,
even if half of the system components fail

High performance



Multi-core modern processors and NVRAM
are your ticket to a fast and reliable world
of working with big data

Compatibility



Easy integration with existing IT
infrastructures and support for
advanced protocols and standards

Guaranteed data protection



Keep your data secure with transactional
integrity support and automatic recovery

Ease of maintenance



Intuitive web-based graphical interface
makes it easier than ever to manage
storage resources like never before

Dimensions

Disk Shelf:
2U (24 x 2.5" NVMe SSD U.2)

Weight (including one disk shelf):
80 kg

Controllers: 2 x 2U,
D: 748mm x W: 433.4mm x H: 87.6mm

Operating conditions

Installation in a standard 19" rack,
up to 1 meter deep

Power consumption from 2000W
(depending on the fill)

Operation at temperatures from 10° to 35°C and relative humidity between 30% and 80%
(without air condensation)

Technical specifications	ITPOD FF-100	ITPOD FF-300	ITPOD FF-500
Class of equipment	Entry	Midrange	High End
Performance (IOPS)	400 000	600 000	1 000 000
Operating mode	Active-Active		
Memory (per system)	512 GB	1024 GB	1536 GB
NVRAM (per system)	64 GB		
Maximum number of drives	24	48	72
Maximum unplaced space	up to 737 TB	up to 1.47 PB	up to 2.2 PB
Efficient space	up to 2.2 PB	up to 4.4 PB	up to 6.6 PB
Supported drives (TLC NVMe)	3.2TB, 6.4TB, 12.8TB 3.8TB, 7.68TB, 15.3TB		
Supported drives (QLC NVMe)	15.3TB, 30.7TB		

Block access protocol

iSCSI
NVMe/TCP

File access protocol

NFS

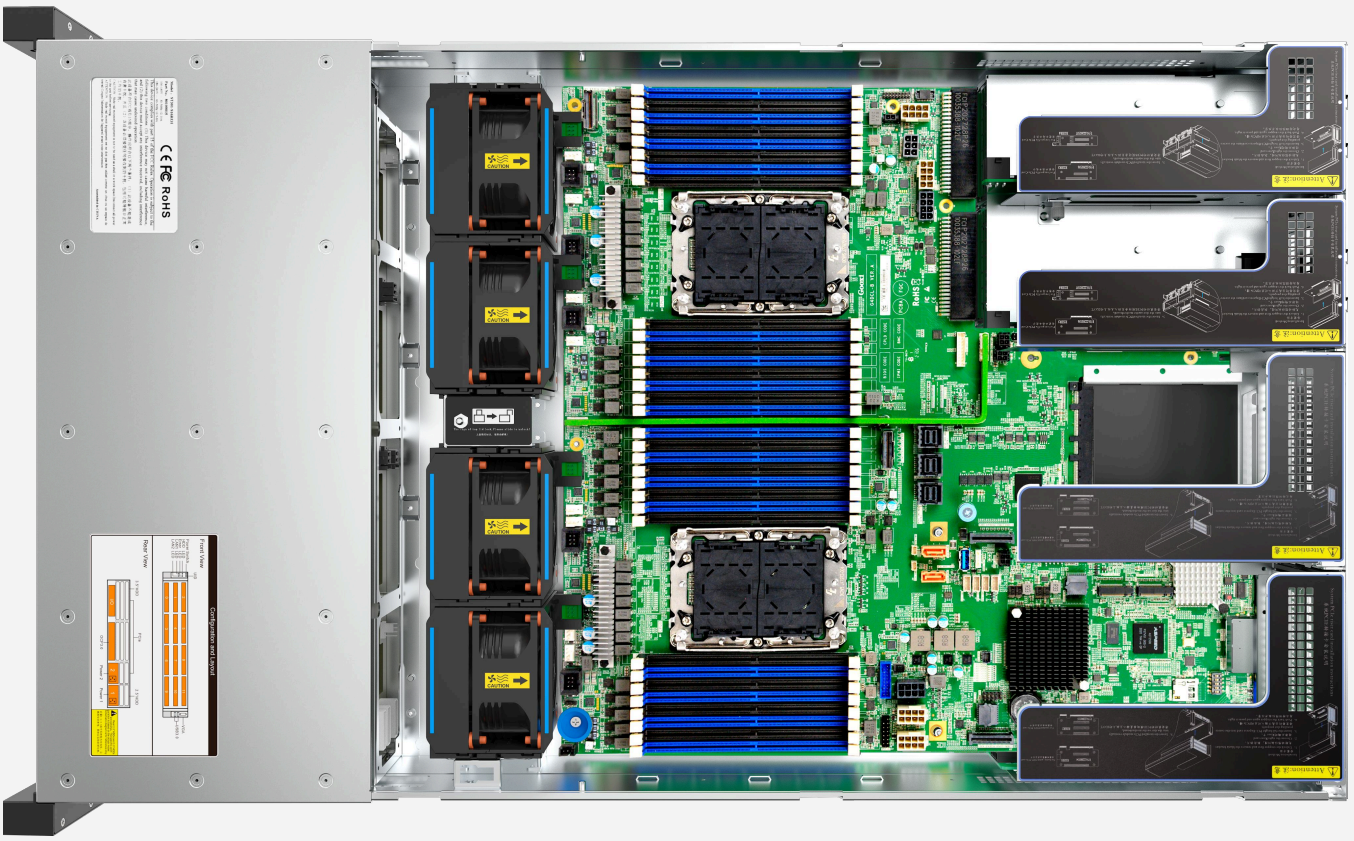
Management console

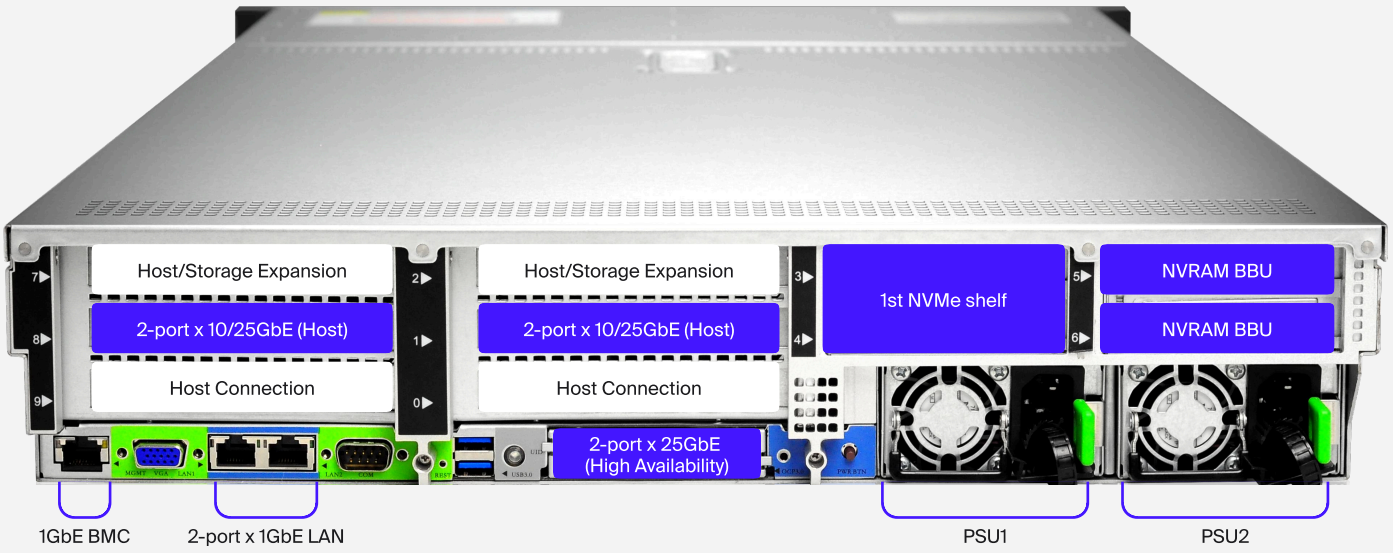
Web GUI

Notifications

AutoSupport
SMTP
SNMP
Syslog

Storage controller





Storage expansion

Up to three NVMe shelves
(max 72 drives)

4 expansion slots for installation

4-port 10Gb Eth SFP+

2-port 10/25Gb Eth SFP28

2-port 40/100Gb Eth QSFP28

Functionality



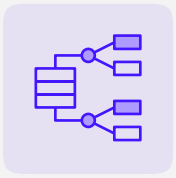
NVMe/TCP

A new industry standard
for superior speed and compatibility



Snapshots

No impact on performance and
independent of volume size



App-on-Controller

The possibility of running isolated
user applications directly
on storage controllers



AutoSupport

Performance monitoring and
AutoSupport alerts with 24/7 support



RAID-Z (1,2,3)

Providing redundancy
without performance degradation
disk failures



QoS

Workload control and QoE prioritization



Inline-Deduplication
Inline-Compression

Cost-effective real-time storage space
utilization for SSD



Thin
Provisioning

High efficiency of space utilization and
allocation

Included tech support	3 years
Advanced service plan	24x7 for 5 years
Replacement of failed components	Up to Next Business Day
Remote Technical Support	Access to the self-service web portal 24 hours a day, 7 days a week

info@itpod.com