



U30G4 - 1U12Bay Storage Server

Driven by the soaring of big data and the growing popularity of IOT, the storage market has been booming for years, which defines the new term "next-generation data storage" to claim for better agility, higher scalability and lower TCO without losing reliability and durability. Nowadays, data can be classified as hot, warm or cold. To utilize the characters of data could facilitate the efficiency of datacenters owned by the service providers.

U30G4 is a compact 1U dual socket storage server supporting twelve 3.5" and two slim 2.5" form factor hot-swappable drives with easy serviceability, offering balanced computing power and storage capacity, flexible IO expansibility, and hardware redundancy. It is ideal for deployments of warm and cold storage and the software defined workloads, such as Hadoop, Ceph, VMware vSan and Microsoft Storage Spaces Direct (S2D), with relevant reduction in CAPEX and OPEX. The series presents,

Ultra-Dense Storage in 1U Compact Form Factor

The U30G4 storage server not only composes of twelve LFF HDD bays and two lower front SFF SSD bays that are both hot-pluggable in a compact 1U form factor, but also offers multiple storage options for greater flexibility and scalability, which include two M.2 NVMe or SATA SSDs via interposer connection, two SATADOMs, and a variety of storage mezzanine cards. U30G4 series is an ideal hybrid system for warm storage and applicable for further storage tiering applications. By optimizing the ratio of SSDs and HDDs, it could highly accelerate IOPS and throughput performance while the excellence of storage capacity is delivered; both

Highlights -

- 12 LFF HDD Bay in 1U Compact Form Factor
- Balanced Computing Power for Distributed Data
- High Scalability Realized by Great IO Flexibility
- Easy Serviceability & Relevant Reliability

demands from warm data as online analytics and cold data as offline archives can be satisfied in an all-in-one system with minimized CAPEX.

Advanced Computing Performance

For warm storage, a balanced computing power is a niche. U30G4 is based on dual Intel® Xeon® Scalable Processors with optional support of single CPU operation, enabling latest Intel technologies such as Intel® Optane™ Persistent Memory (ready with Cascade Lake platform), and boosted performance, including 1.5x memory bandwidth, 2x FLOPs capability, and faster socket interconnection compared with previous platform.

High Scalability and IO Flexibility

U30G4 boasts high-level of IO flexibility that optimizes the scale-out fabrics of software defined storage. A variety of mezzanine cards are available to choose from, including standard OCP 2.0 network card compatibility with up to 100GbE bandwidth support, and a series of Inventec PHY/OCP 2.0 network and storage RAID/HBA cards. Optional standard PCIe Gen3 x16 card is supported too.

Design for Lower OPEX

Designed for reduced OPEX, coupled with full open slide rail kits and cable arm management, U30G4 offers easy serviceability and great reliability for enterprise users.

The hot-pluggable hard drives allow easy operation through front top cover, while the front access SSD carrier are of tool-less serviceability. U30G4 supports N+1 system fan redundancy that could be replaced after removal the rear top cover, and the tool-less power supplies are of easy rear access.

By decreasing downtime and operation efforts, balanced with the ultra-dense storage capacity in compact form factor, and the advancing capability for software-design storage, U30G4 provides the best all-in-one storage solution for your storage investments.



Model Name	U30G4
Positioning	Warm/Cold Storage
Form Factor	1U1N rack mount with slide rail
Processor	Up to Dual Socket; Intel® Xeon® Processor Scalable Family Supporting single CPU option
Memory Slot	16x DDR4 DIMM slot
Chipset	Intel® C620 series (C622)
Disk Drive Bay	Top bays: 12x 3.5" SAS/SATA hot-plug drive (with SAS support from HBA/RAID card) Lower Front SSD bays: 2x 2.5" 7mm SATA hot-plug drive
Expansion Slot	1x PCH PHY/OCF 2.0 x16 NIC mezz Additional expansion options: Option1: 1x Standard PCIe Gen3 x16 (Low Profile) Option2: 1x Inventec Storage mezz
Network Controller	Supporting 10GbE/25GbE/100GbE Mezz Card Supporting Inventec PHY Mezz Card Inventec network OCP mezz card options: Option1: NIC-I350-1GDC (Dual port 1Gb RJ-45) Option2: NIC-I599-10GD (Dual port 10Gb SFP+) Option3: NIC-I540-10GDC (Dual port 10Gb RJ-45)
Storage Controller	Onboard: 2x SATADOM + 3x miniSAS HD connector Supporting 2x M.2 NVMe or SATA Inventec storage mezz card options: Option1: SAS3-3216-16i (12Gb/s) Option2: SAS3-3316-16i (12Gb/s, RAID)
System Management	IPMI 2.0 compliant+ KVM with Dedicated LAN
TPM	2.0
Power Supply	2x 550W Platinum
Fan	6x 4028 system fan, N+1 redundancy 1x 4028 PSU fan

ABOUT INVENTEC

Inventec Enterprise Business Group (EBG) was established in 1998 and has been focusing on the design and manufacturing of server systems. Inventec EBG is the key server system supplier of the global branding clients.

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Inventec® at core

