



# Golduck

## 1U1N AMD EPYC™ 7002 Server System

### Highlights

- **Ground-up AMD EPYC™ SoC Design**
- **Efficient Dual-socket System**
- **12x NVMe/SATA SSD in 1U Form Factor**
- **High Scalability and Flexibility**
- **Optimized Serviceability**



Virtualization



Cloud Computing



High End Enterprise Server



As an alternative performance server option based on 7nm AMD EPYC™ 7002 series processors (Rome), Golduck targets HPC (high performance computing), storage and general-purpose usage with 32 DIMM capacity (up to 4TB with 128GB DIMMs) and offers the expandability up to 2 standard PCIe x16 cards and one OCP 3.0 card. Designed with a simple 1U enclosure, Golduck is optimized for large density and scalability with tool-less storage drives and hot-swappable fan modules. Perfect to various applications including virtualization solutions and big data analysis scenarios requiring better flexibility, higher performance and greater storage capability.

### Boosted Performance and Computing Density

The dual AMD EPYC™ 7002 series processors provide up to 128 cores, 16 memory channels and 162 PCIe 4.0 lanes for a single computing node. With the industry-leading core count and the ground-up innovations, Golduck not only offers ideal linear scalability and demanding virtualization capacity workload, but also boosts the performance of memory-intensive applications.

### Extending Server Capabilities without extra PCIe Switch

Requiring no additional PCIe switches to get the PCIe lanes, Golduck allows up to 2 standard PCIe cards and 1 OCP Mezz card through the CPUs, realizing high speed I/O connectivity.

### Front View



### Rear View



With dual AMD EPYC™ 7002 series processors supporting total 162 available PCIe lanes, Golduck directly supports up to 12 2.5" U.2 NVMe/SATA SSDs, enabling streamlined software-defined and direct-attached storage solutions. Multiple storage options are available, including the on-board M.2 storages, to offer greater flexibility and capacities.

## SoC Level Security

With industry's first embedded x86 silicon-level data security, Golduck minimizes potential attack surfaces and protects software and data with AMD Secure Root-of-Trust, AMD Secure Run, and AMD Secure Move Technologies.

## Flexible Network Configuration

With AMD EPYC™ SoC design that bridges the gaps between existing and future datacenter requirements, Golduck can meet the emerging needs of modern software-defined datacenters, offering a hyper-converged infrastructure with high scalability and flexibility, which is perfectly applicable for database management and analytics, private/hybrid cloud environments, and virtualized infrastructure.

# Golduck | AMD EPYC™ Server

<b>Positioning</b>	General Purpose
<b>Form Factor</b>	1U1N rack mount with slide rail W x H x D: 435 x 43.2 x 800 mm (17.3 x 1.7x 31.5 inch)
<b>Processor</b>	Dual Socket; AMD EPYC™ 7002 Series Processors (2nd Gen AMD EPYC™ Processors) TDP : Up to 165W
<b>Memory Slot</b>	32x DDR4 DIMM slots
<b>Disk Drive Bay</b>	Front HDD Tray: Up to 12 2.5" U.2 NVMe/SATA SSD Internal: 2x M.2 SATA socket
<b>Expansion Slot (Rear side)</b>	2x PCIe Gen 4 x16 slot (FHHL) 1x PCIe Gen4 x16 OCP 3.0
<b>Network Controller</b>	Support 10GbE/25GbE/100GbE/200GbE OCP 3.0 card
<b>Storage Controller</b>	Direct control from CPU 12x NVMe/SATA SSD 2x M.2 SATA
<b>System Management</b>	IPMI 2.0 compliant+ KVM with Dedicated LAN
<b>TPM</b>	TPM2.0 (optional)
<b>Power Supply</b>	1+1 redundancy 800W/1300W (100-220VAC & 240V HVDC) Platinum
<b>Fan</b>	N+1 redundancy, 8x 4056 dual rotor fan

## About Inventec Data Center Solutions (Inventec EBG)

Inventec Data Center Solutions (Inventec EBG) was established in 1998 and has been focusing on the design and manufacturing of server systems in Inventec Corporation. Over decades, Inventec EBG has been the key server system supplier of the global branding clients.

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