



# BIGTWIN™

Featuring the latest AMD EPYC™ 7002 Generation processors

The BigTwin™ is a 2U multi-node system supporting the latest AMD EPYC™ 7002 Generation processors, enabling up to 128 CPU cores and 256 threads, 4TB of DDR4 3200MHz ECC memory and PCI-E gen4 technology, per node.

## NEW LEADER, NEW RULES

2nd Gen AMD EPYC™ CPUs are a new breed of server processors which sets a higher standard for datacenters. Ground-breaking design makes AMD EPYC™ #1 in performance across industry standard benchmarks. Performance you can count on to propel your modern datacenter workloads. 'Hardened at the Core' protection helps defend against side-channel attacks and EPYC's secure encrypted virtualization features help keep your data safe. The processor's agility helps you manage new deployments and changing workloads, with the system resources you need, simply and cost-effectively. AMD is the server processor company can count on for innovation and leadership today and into the future.

AMD EPYC™ 7002 Series Processors can deliver up to 2X the performance-per socket and up to 4X peak FLOPS (floating point operations per second) per-socket compared to the AMD EPYC™ 7001 Series Processors. Delivering a comprehensive, consistent feature set of I/O, memory and security enhancements, across 8 to 64 "Zen" 2 cores, the AMD EPYC™ 7002 Generation Processors delivers better agility.

## PERFORMANCE LEADERSHIP

The BigTwin™ featuring AMD EPYC™ 7002 series processors is designed with power and cost efficiency in mind, leveraging redundant 2200W Titanium efficiency power supplies to reduce inefficiencies and power consumption.

For memory bound applications, the AMD EPYC™ 7002 Series Processor boasts 8 channels per socket with DDR4 support and delivers agility and increased compute density from a balanced set of attributes, as well as pervasive encryption that helps keep your applications and your business safe.

## KEY FEATURES

Dual AMD EPYC™ 7002 series processors (up to 128 cores)

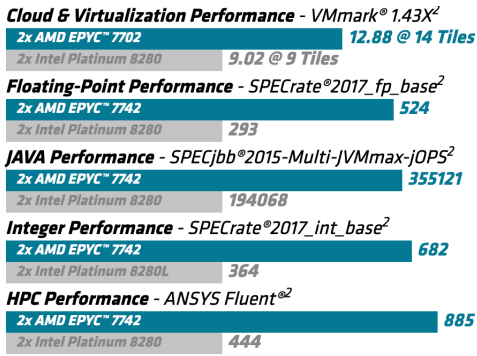
Up to 4TB DDR4 3200MHz Registered ECC Memory

2x PCIe 4.0x16 slots

1x Flexible SIOM card support

6x Hot Swap 2.5" SATA3 drive bays  
1x M2 connector (SATA/NVMe)





**Turbocharge your application performance and transform your data center operations**

**Highest Performing 2U Twin Architecture with 4 or 2 Nodes**

**World record performance for both TPCx-IoT and TPC-DS benchmarks**

**ABOUT BIOS IT**

BIOS IT is a global design house, systems builder and integrated solution provider for enterprise performance computing. We construct bespoke clusters and appliances by hand picking the best components and newest technologies based on specific customer goals. We support well-known organisations at the top of their research fields, across science, engineering, academia and finance disciplines. Our comprehensive range of products and services include: high-performance enterprise servers, storage and networking, on-premise or in the cloud, with associated services, support, hosting and software.

**BE TOP OF THE SECURITY CHAIN**

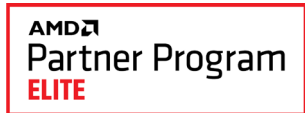
AMD EPYC™ is ‘Hardened at the Core’ with advanced security features. It is the first server CPU with an integrated and dedicated security processor providing the foundation for Secure Boot, Secure Memory Encryption (SME) and Secure Encrypted Virtualization (SEV). So you can worry less about data risk and focus more on running your business.

**MAKE IT EPYC**

Built on Supermicro x86 architecture, BIOS IT’s range of solutions supporting AMD EPYC™ enable a new range of powerful and energy-efficient server options to radically lower data center TCO through an optimized balance of compute, memory, I/O, and storage resources.

**AMD ELITE PARTNERS**

As an AMD Elite Partner, BIOS IT is recognised for delivering cutting edge embedded solutions based on the latest AMD products and its close collaboration with AMD in specific target segments.



	BIGTWIN™
CPU	2x AMD EPYC™ 7002 Series Processors
MEMORY	Up to 4TB DDR4 Registered ECC 3200MHz over 16 DIMM slots
STORAGE	6x Hot-Swap 2.5" SATA3 Drive Bays 1x M.2 connector (SATA3/NVMe)
FORM FACTOR	2U
EXPANSION SLOT	2X PCI-E 4.0x16 HHHHL slots
NETWORK	Flexible SIOM networking IPMI 2.0 + KVM with dedicated LAN
POWER SUPPLY	Redundant 2200W Titanium Level Power Supply

CUSTOM CONFIGURATIONS ACROSS CORE COUNT, FORM FACTOR AND SUPPORT ARE ALSO AVAILABLE

For more information visit [www.bios-it.com..](http://www.bios-it.com..)



[www.bios-it.com](http://www.bios-it.com)  
 AMERICAS: 1-800-654-BIOS | EMEA: +44 (0) 203 178 6467 | APAC: +61 (0)2 8866 3343

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