

US-5000™ Intel® Modular Server

SIMPLE

The Intel® Modular Server simplifies systems management for IT administrators, freeing them to spend more time on proactive maintenance and allowing them to react quicker to unexpected events.

FLEXIBLE

The Intel® Modular Server combines capacity-on-demand, hot-swappable and redundant compute and storage resources, virtualized storage with snapshots, and boot from - SAN functionality - all managed by the powerful Virtual

EXCEPTIONAL VALUE

Designed to make life easier on the overworked IT administrator, it brings compute, storage, and network resources together in one flexible and easy-to-manage device. The Intel® Modular Server is an affordable, real solution for the IT challenges of today's SMB customers.



- Increased IT -- Uptime Redundant systems increase network uptime with failovers between servers and backups
- Ease of Management -- One integrated system with end-to-end management lets you manage the entire system from a web-based GUI interface
- "Grow as you grow flexibility" --With options for up to 6 Server Compute Modules and up to 14 storage drives, purchase only as much as you need when you need it
- Improved Data Protection -- Centralized backup and virtual access allow for greater data protection.

A simple, flexible system that provides exceptional value

The Intel® Modular Server enables business in a box with seamless installation, migration, and growth capabilities. It has the ability to support up to six server compute modules and fourteen SAS 2.5" hard disk drives, as well as two Ethernet Switch Modules, integrated SAN, and a management module. The Intel Modular Server is a flexible and powerful system for the small to midsize business.

The Intel® Modular Server built on Intel® Multi-Flex Technology is a multi-dimensional server that eases the strain placed on IT administrators. In particular, IT administrators in small to medium-sized businesses (SMBs) are constantly asked to do more with less—

to provide greater performance and reliability with fewer people and dollars.

The Intel® Modular Server is comprised of; a 6U Chassis that can be configured as a rack mount or horizontal pedestal base, a Storage Controller module, with an option for redundancy, supports RAID 0,1,1E,5,6, battery backup, and external SAS RAID connectivity, a Gigabit Ethernet switch module with layer-2 features and redundancy options, six Compute Modules with up to two Intel® Xeon® processors and eight FB DIMMs slots for up to 32GB memory, integrated remote KVM, and a Management Module providing real time access to hardware information, direct device selection, and end to end management of the full system.

Technical Specifications

LIMITED WARRANTY

US Micro offers a 3-year parts and labor "return to depot" warranty on all servers. Third-party items, including keyboards, mice, card readers, etc. that are purchased as a part of a full system carry a 1-year US Micro warranty (excluding monitors). All monitors are covered under their manufacturer warranty. US Micro will repair or replace any defective system or part(s) at our own discretion.

Extended warranties and onsite service are available at a separate charge.

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Chassis Configuration	<ul style="list-style-type: none"> • 6U rack mount or pedestal based • Full system configuration power requirements: 3,000 watts 	Server Compute Module	Processors <ul style="list-style-type: none"> • Based on the Intel® 5000P series chipset and supports multi-core Intel® Xeon® processors Intel® 5000P chipset family, including: <ul style="list-style-type: none"> • Intel® 5000P Memory Controller Hub • Intel® 6321ESB I/O Controller Hub Memory • 8 fully-buffered DIMM (FBDIMM) slots supporting up to 32GB of memory On-board host bus adapter <ul style="list-style-type: none"> • LSI* 1064e SAS controller LAN • Two integrated 10/100/1000 Ethernet ports and two optional 10/100/1000 Ethernet ports via the Mezzanine Card On-board Video <ul style="list-style-type: none"> • Server Compute Module ATI* ES1000 video controller with 16 MB of DDR SDRAM External Connectors <ul style="list-style-type: none"> • Two USB 2.0 ports • Video connector Internal Connectors <ul style="list-style-type: none"> • One Intel® I/O Mezzanine Connector supporting an optional Mezzanine Card
Front	<ul style="list-style-type: none"> • Storage drive bay supports 14 hot-swap 2.5" SAS drives • Up to 6 Server Compute Modules • One Hot Swap I/O Fan Module 	Mezzanine Card	<ul style="list-style-type: none"> • Provides additional dual-channel Ethernet ports • Intel® Modular Server Accessory AXGGBIOMEZ
Rear	<ul style="list-style-type: none"> • One Management Module • Up to two Ethernet Switch Modules • Up to two Storage Control Modules • Four power supply bays for 3+1 redundancy • Two hot swap fan modules 	Chassis Size	<ul style="list-style-type: none"> • Height: 10.3 inches (6U) • Width: 17.5 inches • Depth: 28.4 inches • Weight fully configured: 187 lbs.
Mid-Plane	<ul style="list-style-type: none"> • Connects subsystems to the Management Module • Designed for multiple generations of Server Compute Modules • Provides I/O for the system 	Chassis Power Requirements	<ul style="list-style-type: none"> • Up to four 1,000-watt DC output power supply modules with 110-240V AC input
Storage Control Module	<ul style="list-style-type: none"> • RAID: 0, 1, 1E, 5, 6, 10 • I/O: External extended storage mini SAS port, Six internal 3GbPS SAS channels • Active-Active redundancy • Battery Backup 	Chassis Noise Emissions	<ul style="list-style-type: none"> • Sound power 70 dB maximum
Ethernet Switch Module	Ports <ul style="list-style-type: none"> • Ten external 10/100/1000 GbE full-duplex ports • Twelve internal 1-GbE full-duplex ports Management <ul style="list-style-type: none"> • Port, VLAN, and Advanced Switch Configuration via the Management Module Layer 2+ features • ACL, QOS, Link Aggregation, 10K Jumbo Frame support, VLAN support, STP, and RSTP • Non-blocking I/O, wire-speed performance 	Chassis Environment	<ul style="list-style-type: none"> • Temperature operating: 10°C to 35°C 50°F to 95°F • Temperature non-operating: -40°C to 70°C -40°F to 158°F • Altitude: -30 to 1,500 m -100 to 5,000 ft
Management Module	I/O <ul style="list-style-type: none"> • External 10/100 Ethernet port • External serial port Remote Management <ul style="list-style-type: none"> • Remote Media • Remote Console 	Chassis Safety	<ul style="list-style-type: none"> • UL60 950, CSA60 950, AS/NZS 3562, GB4943-1995, EN60 950 and 73/23/EEC, IEC 60 950, EMKO-TSE (74-SEC) 207/94, GOST-R 50377-92



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