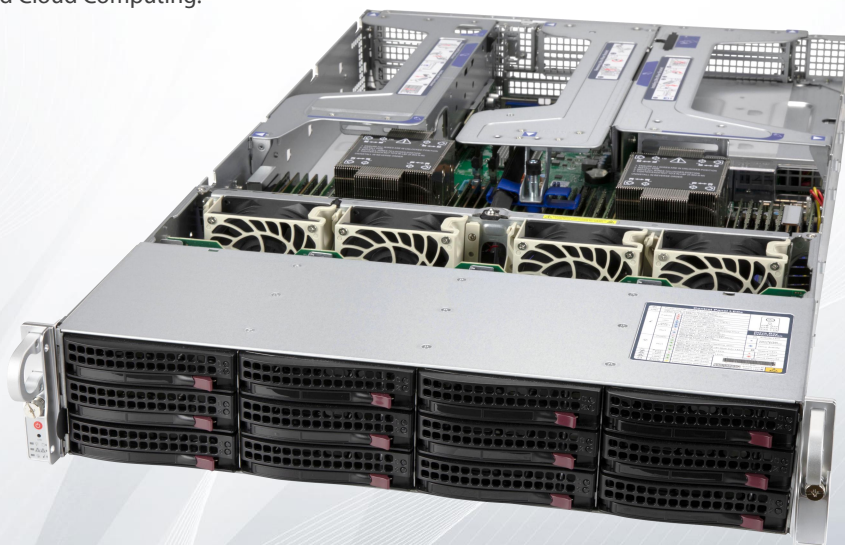**FS**

RS7260-V2 RACK SERVER

HIGH CONFIGURATION AND WIDE RANGE OF APPLICATIONGS

The server can be easily reconfigured for multiple Enterprise and Data Center applications in Virtualization, Big Data, Analytics and Cloud Computing.

Overview

Offering 12x 3.5-inch hot-swappable hybrid drive bays, the RS7260-V2 rack server supports SATA, SAS, or NVMe storage devices. The 2U system is among the family of servers that support X12 motherboards featuring the latest 3rd generation Intel Xeon Scalable processors. This high-end server is ideal for virtualization, high-performance computing, plus software defined storage and cloud computing.

Benefits

• Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors

• Intel® C621A Chipset

• 32 DIMM Slots, Up to 8TB DRAM

• Flexible networking options

• 12x3.5" hot-swap hybrid NVMe/SATA/SAS drive bays

• 4 heavy duty fans with optimal fan speed control

Product Characteristics

Performance

The FS rack server RS7260-V2 provides the highest performance and flexibility for enterprise applications and supports the latest 3rd Gen Intel Xeon Scalable processors. The dual CPUs support up to 40 cores and 80 threads with a thermal design point (TDP) of 270W. Each processor also supports 8x memory channels with 16x memory module slots for a total of 32x DIMMs. In addition to high-performance computing applications, this platform is also a great choice for software defined storage and 5G/Telco applications.

Memory

With both processors installed, the motherboard supports 32x memory module slots for up to 12TB of memory when using Intel Optane Persistent 200 series memory combined with 3DS DDR4 RDIMM or LRDIMM modules. Up to 8TB of memory is supported when only RDIMM or LRDIMM DDR4 modules are installed. The RS7260-V2 rack server supports RDIMM, LRDIMM, RDIMM 3DS, and LRDIMM 3DS memory modules. Memory speeds range from 2666MHz to 3200MHz, but if DIMMs of different frequencies are mixed in the same channel, all DIMMs will run at the slowest common frequency. The motherboard also uses non-volatile (NVDIMM) memory to retain system information when the power is turned off. NVDIMM memory is powered by a motherboard-mounted lithium battery in the event of a power failure.

Storage

The 2U server delivers 12x hot-swappable 3.5" drive bays lining the front of the chassis. These drive bays are compatible with SATA, SAS, or NVMe storage bays and can be easily removed because they're mounted in tool-less drive carriers. The RS7260-V2 server supports SATA by default, but can be optimized to deliver the highest performance and flexibility with optional NVMe and SAS. However, additional parts are required to support SAS and NVMe storage devices.

Expansion

There are 8x PCIe 4.0 slots on the RS7260-V2 that can be accessed through the back of the server. One Riser card, one right-facing WIO riser card, and one left-facing WIO riser card are available for the system's riser cards, which have custom PCIe capabilities. Alternate riser cards provide two more x16 slots for support of up to 4x GPUs. Scattered among the motherboard are eight 8-pin power connectors that supply power to onboard devices, with four dedicated to GPU devices and the other four for backplane devices.

Management

Management of the system is through the Intelligent Platform Management Interface (IPMI), which can help to manage the system both at-chassis and remotely. FS offers several different management tools available for all models in the rack servers. Management programs include Redfish API, IPMI 2.0, Watch Dog, Intel Node Manager, etc. IPMI2.0 monitors the chassis' health information like CPU temperature, system power consumption, and fan speed. Most recently, FS also supports API Redfish, which is a different variation of the Intelligent Platform Management Interface (IPMI), but without the hassle. Redfish allows users to program maintenance tasks and simple configurations that have been too complex and time-consuming in the past.
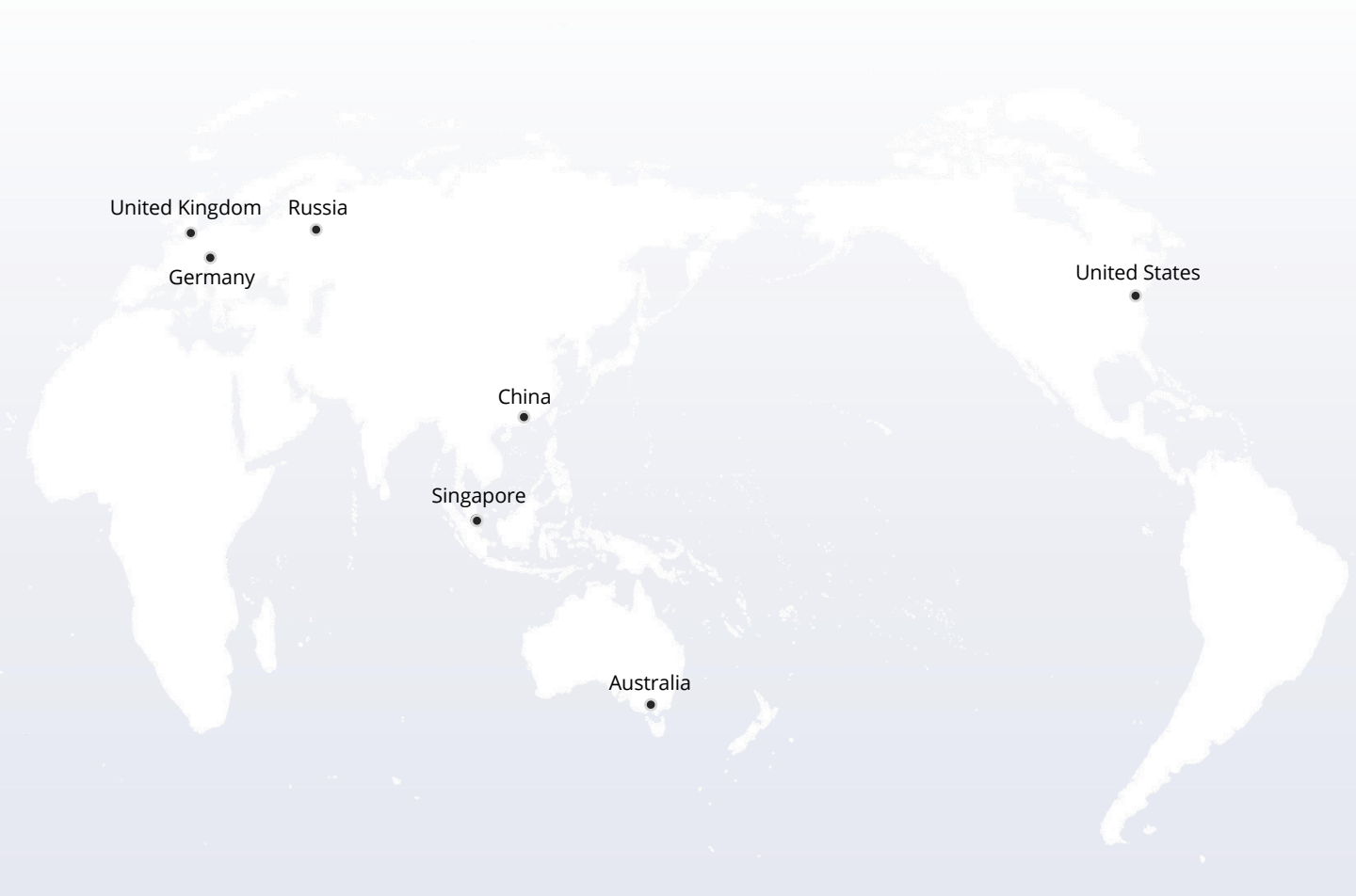
Product Parameters

Processor	
CPU	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Support CPU TDP 270W *
Cores	Up to 40C/80T; Up to 60MB Cache
Note	*Certain CPUs with high TDP may be supported only under specific conditions. Please contact FS Technical Support for additional information about specialized system optimization

System Memory	
Memory	Memory Capacity: 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Up to 12TB: 16x 512 GB PMem and 16x 256 GB DRAM Memory Type: 3200/2933/2666MHz ECC DDR4 RDIMM; LRDIMM Intel® Optane™ persistent memory 200 series
Memory Voltage	1.2V
Error Detection	ECC

On-Board Devices	
SATA	SATA3 (6Gbps) via Intel® PCH 621A; RAID 0/1/5/10 support
NVMe	NVMe (16GT/s); RAID 0/1/5/6/10/50/60 support
Chipset	Intel® C621A
Network Connectivity	2x10GbE BaseT with Intel® X710-AT2 (optional) OR 2x10GbE BaseT and 2x10GbE SFP+ with Intel® X710-TM4 (optional) No NIC option supported
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output	
LAN	1 RJ45 Dedicated BMC LAN port
USB	2 USB 3.0 port(s) (2 rear)
Video	1 VGA port(s)
Serial Port	1 COM Port(s) (1 rear)

Management	
Software	Redfish API IPMI 2.0 Intel® Node Manager KVM with dedicated LAN NMI Watch Dog

Product Parameters

Management	
Power Configurations	ACPI Power Management Power-on mode for AC power recovery

PC Health Monitoring	
CPU	7 +1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory
FAN	Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors

System BIOS	
BIOS Type	AMI 32MB SPI Flash EEPROM

Dimensions and Weight	
Height	3.5" (89mm)
Width	17.2" (437mm)
Depth	29.05" (737.9mm)
Package	10.07" (H) x 23.81" (W) x 37.28" (D)
Weight	Net Weight: 35.5 lbs (16.2 kg) Gross Weight: 57.5 lbs (26.2 kg)
Available Color	Black Front & Silver Body

Chassis	
Form Factor	2U Rackmount

Front Panel	
Buttons	Power On/Off UID button
LEDs	HDD activity LAN1 activity LAN2 acticity Power Fail Power status System information (overheat/UID)

Drive Bays / Storage	
Hot-swap	12x 3.5" hot-swap NVMe/SATA/SAS drive bays (12x 2.5" NVMe hybrid) (SAS/NVMe support requires additional parts.)

Product Parameters

Expansion Slots	
PCI-Express (PCI-E)	Slot 1: PCI-E 4.0 x16 FH, 10.5"L Slot 2: PCI-E 4.0 x8 FH, 10.5"L Slot 3: PCI-E 4.0 x8 Internal LP Slot 4: PCI-E 4.0 x16 LP Slot 5: PCI-E 4.0 x8 FH, 10.5"L Slot 6: PCI-E 4.0 x8 FH, 10.5"L Slot 7: PCI-E 4.0 x8 FH, 10.5"L Slot 8: PCI-E 4.0 x8 FH, 10.5"L
Note	Optional RSC-W2-66G4 enables PCI-E x16 in slots 5, 7. Slots 6,8 will be disabled.
System Cooling	
Fans	4x 8cm heavy duty fans with optimal fan speed control
Air Shroud	2 Air Shroud(s)
Power Supply	
Dimension(W x H x L)	73.5 x 40 x 203 mm
AC Input	800W: 100-127Vac / 50-60Hz 1200W: 200-240Vac / 50-60Hz 1200W: 200-240Vdc (For CCC Only)
+12V	Max: 66.7A / Min: 0A (100Vac-127Vac) Max: 100A / Min: 0A (200Vac-240Vac) Max: 100A / Min: 0A (200Vdc-240Vdc) (For CCC Only)
12V SB	Max: 2.1A / Min: 0A
Output Type	AC-Input
Operating Environment	
Environmental Spec.	Operating Temperature: 10°C ~ 35°C (50°F~ 95°F) Non-operating Temperature: -40°C ~ 60°C (-40°F~140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Warranty	
Warranty	3 years labor, 3 years parts

United Kingdom   Russia

Germany

United States

China

Singapore

Australia

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