

RS7260 RACK SERVER

HIGH CONFIGURATION AND WIDE RANGE OF APPLICATIONS

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



Overview

The 2U RS7260 rack server is powered by dual Intel Xeon Scalable processors and is designed for video processing, artificial intelligence, and general data center virtualization. This server is part of the 2029U-E series and in order to maintain its quality, it must be purchased as a completely assembled system with a minimum of 2x CPUs, 4x DIMMs and a storage add-on-card.

Benefits

- Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors
- Intel® C621 Chipset
- 24 DIMMs, up to 6TB 3DS ECC
- 2x10GBase-T LAN ports
- 24 Hot-swap 2.5" Drive Bays
- 4 Heavy duty 8cm PWM fans

Product Characteristics

Performance

Intel's C621 chipset supports 8x integrated SATA ports, as well as 6x S-SATA ports that are supported by the integrated Intel SAS Control Unit (SCU). With up to 28 cores, you can create more virtual machines. Both Gen 1 and 2 are supported, with Gen 1 running at memory speeds of up to 2666MT/s, and Gen 2 processors running at a top speed of 2933MT/s. The Intel Xeon 8100/6100/5100/4100/3100 processor series comes in two models: Fabric (F Model) and Non-Fabric (Non-F Model), but only the Non-Fabric model is supported for this system. Powering the system are two 1000W PSUs supporting redundancy, such that one will continue to operate if the other module fails. These modules are hot-swappable and also have auto-switching capabilities. This feature enables them to automatically sense the input voltage and operate at a standard 100-120v or 180-240v.

Memory

A maximum of 6TB of memory is supported in 24x DIMM slots on the system, with 6 memory channels per processor, there are 12x memory channels total in a two-processor configuration. Choose from 3DS Load Reduced (3DS LRDIMM), 3DS Registered (3DS RDIMM), or up to 3 TB of Load Reduced (LRDIMM) memory modules operating at speeds of up to 2933 MHz. Non-Volatile (NV-DIMM) memory modules and Intel Optane DC Persistent Memory Modules (DCPMM) are also supported, depending on your choice of processor.

Storage

The RS6260 rack server supports a variety of storage options. 24x SATA hot-swap 2.5-inch drive bays are supported natively. You can also install up to 24x SAS drives with an add-on card. With this option, you can also use the 4x hybrid bays to support up to 4x NVMe drives. There's also an option for 2x SATA 2.5-inch drives in the rear, and 2x internal M.2 solid state drives.

Expansion

Riser cards allow you to add more functionality to the system using PCI expansion cards. The total number of expansion cards depends on the model in the Rack Series, but there are 8x PCIe slots on this system. In order to have full access to the slots and onboard controllers, both CPUs must be installed. Up to 2x M.2 solid state drives can be installed on an optional riser card, with some restrictions. One M.2 socket supports NVMe and the other supports SATA.

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

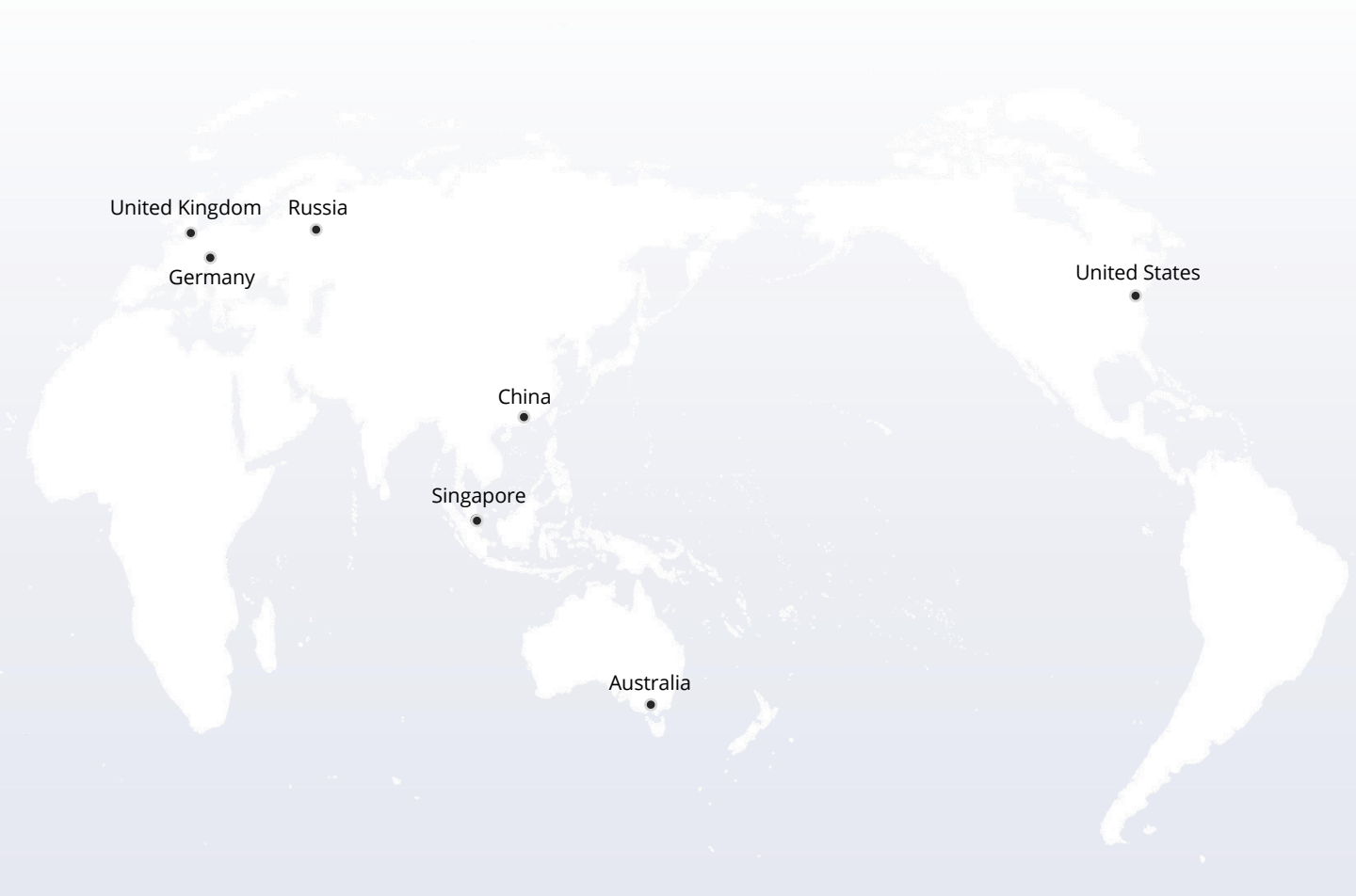
Processor	
CPU	Dual Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors*, Dual UPI up to 10.4GT/s Support CPU TDP 70-205W
Cores	Up to 28 Cores
Note	* BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).
System Memory	
Memory Capacity	24 DIMM slots Up to 6TB 3DS ECC DDR4-2933MHz* RDIMM/LRDIMM Supports Intel® Optane™ DCPMM**
Memory Type	2933*/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM 2666 ECC DDR4 NVDIMM
Note	* 2933MHz in two DIMMs per channel can be achieved by using memory purchased from FS ** Cascade Lake only. Contact your FS sales rep for more info.
On-Board Devices	
Chipset	Intel® C621 chipset
SAS	SAS3 (12Gbps) via expander + Broadcom 3108/3008 AOC; RAID 0, 1, 5, 6,10, 50, 60
Graphics	ASPEED AST2500 BMC
Network Connectivity	2x10GBase-T ports via Intel® X540 (AOC-2UR68-i2XT)
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	2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	3 USB 3.0 ports (2 rear, 1 Type A)
Video	1 VGA Connector
Serial Port	1 Serial header
SAS	24 SAS3 ports support via expander and storage Add-on Cards
Management	
Software	Intel® Node Manager Redfish API IPMI 2.0 KVM with dedicated LAN NMI

Product Parameters

Management	
Power Configurations	ACPI Power Management
PC Health Monitoring	
CPU	Monitors for CPU Cores, Chipset Voltages, Memory 4+1 Phase-switching voltage regulator
FAN	Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors
System BIOS	
BIOS Type	AMI 32Mb SPI Flash ROM
Dimensions and Weight	
Height	3.5" (89mm)
Width	17.2" (437mm)
Depth	27.76" (705.3mm)
Weight	Net Weight: 36 lbs (16.4 kg) Gross Weight: 72 lbs (32.7 kg)
Available Color	Black
Chassis	
Form Factor	2U Rackmount
Front Panel	
Buttons	Power On/Off button System Reset button
LEDs	Power status LED HDD activity LED Network activity LEDs System information (overheat/UID) LED
Drive Bays / Storage	
Hot-swap	24 Hot-swap 2.5" drive bays: 24 SAS3 via opt. AOC (4 hybrid ports - opt. 4 NVMe) Note: Storage Add-on card is required
M.2	1 M.2 PCI-E 3.0 x4 M-Key NVMe or 1 M.2 M-Key SATA3 (2240/2260/2280/22110) via optional riser card (see optional parts list) 2 M.2 PCI-E 3.0 x4 M-Key NVMe (2260/2280/22110) via optional add-on card AOC-SLG3-2M2

Product Parameters

Expansion Slots	
PCI-Express (PCI-E)	Slot 1: PCI-E 3.0 x16 FH, 10.5"L Slot 2: PCI-E 3.0 x 8 FH, 10.5"L Slot 3: PCI-E 3.0 x 8 FH, 10.5"L Slot 4: PCI-E 3.0 x 8 FH, 10.5"L Slot 5: PCI-E 3.0 x 8 FH, 10.5"L Slot 6: PCI-E 3.0 x 8 FH, 10.5"L Slot 7: PCI-E 3.0 x 8 Internal LP Slot 8: PCI-E 3.0 x 8 LP
Note	(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers.)
System Cooling	
Fans	4 Heavy duty 8cm PWM fans
Air Shroud	1 Air Shroud
Power Supply	
Total Output Power	800W: 100 – 127Vac 1000W: 200 – 240Vac 1000W: 200 – 240Vdc (for CCC only)
Dimension(W x H x L)	73.5 x 40 x 203 mm
Input	100-127Vac / 9.8 - 7A / 50-60Hz 200-240Vac / 7 - 5A / 50-60Hz 200-240Vdc / 7 - 5A (for CCC only)
+12V	Max: 62.5A / Min: 0A
12V SB	Max: 2.1A / Min: 0A
Output Type	25 Pairs Gold Finger Connector
Operating Environment	
RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C ~70°C (-40°F ~ 158°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



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