R1304 1U Enterprise Server

1U E3 1200 V5 Xeon Intel Server
4) 3.5" or 2.5" Hot Swap Drive Bays
Intel long life architecture
Redundant Cooling
1.7" x 17.2" x 21.8"
Reliable 24x7 operation
Front/Rear USB 3.0 ports
Dual GB Ethernet ports
RJ-45 Server console
Heavy duty shipping container

Intel Xeon E3-1200 v5 Enterprise Server

The R1304 1U rackmount server is an integrated 1U rack system featuring an Intel® Server Board S1200SP0 supporting four 3.5" hot-swap HDDs or eight 2.5" HDDs with two 450W Common redundant power supplies. The R1304 includes redundant cooling, a passive CPU heat sink, dual 1GbE LAN ports, and onboard support for Raid 0/1/10/5.

R1304 Enterprise computing markets include:

- Enterprise Servers
- Cloud Computing
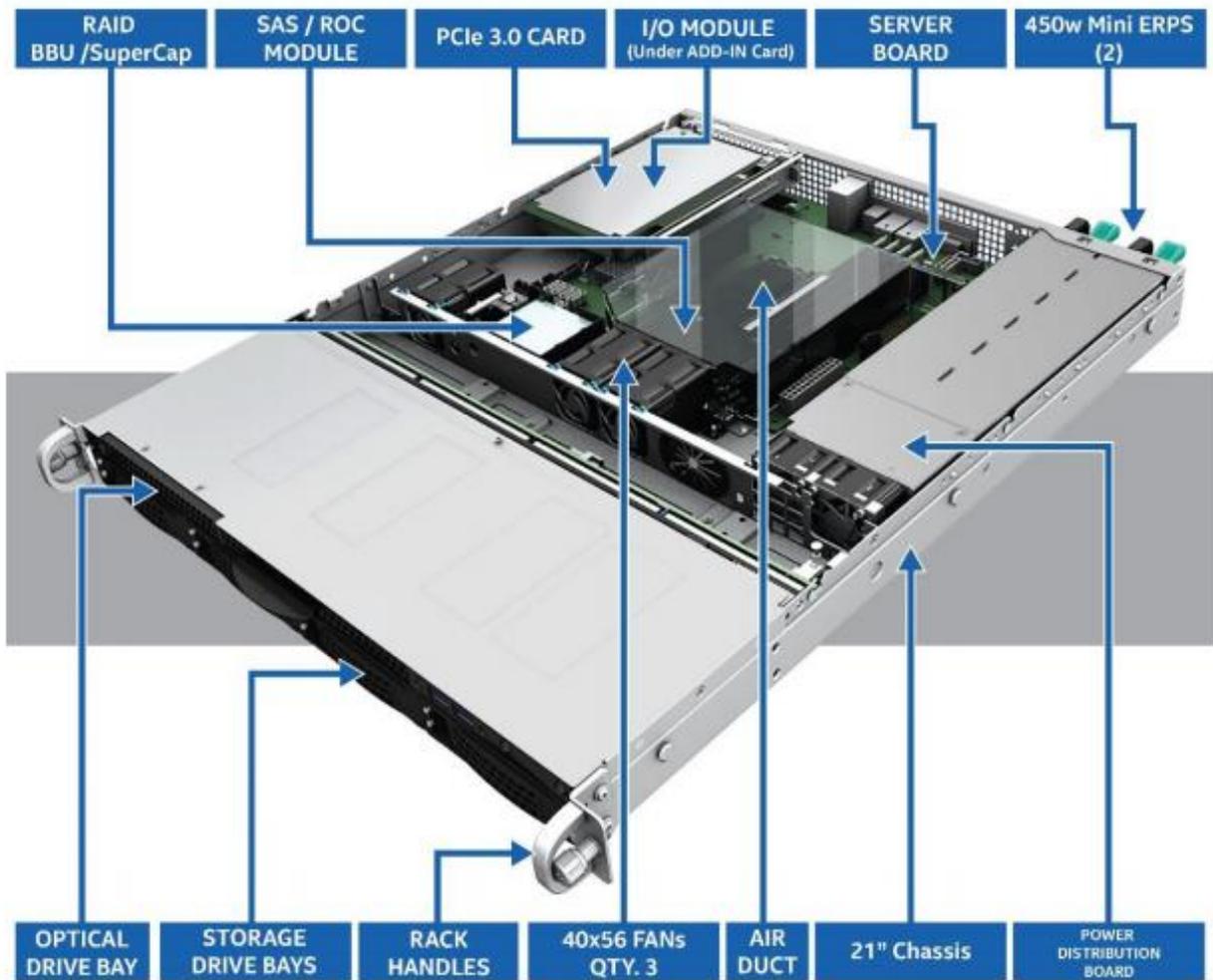- High Performance Computing

R1304 Features:
Single E3 1200 v5 Xeon processor, 12G DDR3 Ram, Dual Mirrored 250GB Enterprise drives for OS, DVD R/W optical drive, 450Watt Dual redundant power supply, 1) PCIe expansion slots, Integrated graphics, audio, and Ethernet, keyboard & Optical mouse. Front dual USB 3.0 and Rear quad USB 2.0/3.0 ports, dual serial ports, and dual gigabit Ethernet ports. RJ45 Server Console. Heavy Duty shipping container.

Overview Diagram:
- High volume CFM fans
- Automatic fan control providing cool and quiet operation
- DVD-R/W
- Space savings
- Expansion Slot for dual or quad Ethernet port adapter

R1304 1U Server

RAID BBU /SuperCap

SAS / ROC MODULE

PCIe 3.0 CARD

I/O MODULE (Under ADD-IN Card)

SERVER BOARD

450w Mini ERPS (2)

OPTICAL DRIVE BAY

STORAGE DRIVE BAYS

RACK HANDLES

40x56 FANs QTY. 3

AIR DUCT

21" Chassis

POWER DISTRIBUTION BOARD

R1304 1U Server

Feature	Description
Chassis Type	1U Rack Mount Chassis
Server Board	Intel® Server Board S1200SP – (Intel product code - S1200SPO)
Processor Support	• One LGA1151 (Socket H4) processor socket • Support for one Intel® Xeon® E3-1200 V5 processor without processor graphics (GT0 or 4+0) • Maximum supported Thermal Design Power (TDP) of up to 80 W. • 8 GT/s point-to-point DMI 3.0 interface to PCH
Memory	• Two memory channels, four memory DIMM Slots (Two memory DIMMs per channel) • Support for 2133 MT/s Unbuffered DIMMs (UDIMM DDR4 ECC memory)
Chipset	Intel® C236 Platform Controller Hub (PCH) chipset
External I/O connections	• 1x DB-15 video connector • Two Gigabit Ethernet Ports • Dedicated RJ-45 server management port • Two USB 2.0 connectors on back panel • Two USB 3.0 connectors on back panel • Two USB 3.0 connectors on front panel
Internal I/O connectors / headers	• One Type-A USB 2.0 connector • One 2x5 pin connector providing front panel support for two USB 2.0 ports • One 2x10 pin connector providing front panel support for two USB 2.0 / 3.0 ports
Intel® I/O Module Accessory Options	The server board includes a proprietary on-board connector allowing for the installation of a variety of available Intel® I/O modules. An installed I/O module can be supported in addition to standard on-board features and add-in PCIe* cards. The Following Intel® I/O Modules are supported: • AXX4P1GBPWLIOM – Quad port 1GbE I/O based on Intel® Ethernet Controller I350 • AXX10GBNIAIOM – Dual SFP+ port 10GbE based on Intel® 82599 10 Gigabit Ethernet Controller • AXX10GBTWLIOM3 – Dual RJ-45 port 10G BASE-T based on Intel® Ethernet Controller X540
System Fans	• Three managed 40mm single rotor system fans • One power supply fan for each installed power supply module
Riser Card Support	• One x16 PCIe* 3.0 Riser Card H87808-XXX on a x8 Riser slot (slot-6)
Video	• Integrated 2D video controller • 16 MB DDR3 Memory

Feature	Description

On-board storage controllers and options	• 8x SATA connectors up to 6Gbps
	• 1x SATADOM connector (SATA port 4)
	• 1x 75 pin connector for M.2 SATA SSD (2242 form factor)
	• Embedded Software SATA RAID
	  o Intel® RSTe 4 SW RAID through onboard SATA connectors provides SATA RAID 0/1/10/5.
	  o Intel® Embedded Server RAID Technology II through onboard SATA connectors provides SATA RAID 0/1/10 and optional RAID 5 support provided by the Intel® RAID Activation Key RKSATA8R5.

Security	Intel® Trusted Platform Module (TPM) 1.2 based on LPC
Server Management	• Integrated Baseboard Management Controller, IPMI 2.0 compliant • Support for Intel® Server Management Software • On-board RJ45 management port • Advanced Server Management via an Intel® Remote Management Module 4 Lite (Accessory Option)

Power Supply Options	• The server system supports two options for Power Supply:
	  o 1 x 350w Power Supply (Fixed)
	  o 2 x 450w Power Supply Modules (Redundant, Hot-Swap capable)

Storage Bay Options	**Hot Swap Backplane Options:** **NOTE**: All available backplane options have support for SAS 3.0 (12 Gb/sec) • 4 x 3.5" SAS/SATA backplane • 8 x 2.5" SAS/SATA backplane **Storage Bay Options:** • 4 x 3.5" SAS/SATA hot swap drive bays + front panel I/O • 8 x 2.5" SAS/SATA hot swap drive bays + front panel I/O
Supported Rack Mount Kit Accessory Options	• AXXVPSRAIL - Value Plus Short Rail