

Rx120-3i

Provides performance and versatility to address your most demanding applications

The Exatron Rx120-3i Edge Server, a Class-1 Make in India solution, Delivers Robust and Compact performance in a 1U, Single-Socket design. Engineered for Efficiency and Scalability, It excels in Edge Deployments, Virtualized workloads and Data-Driven operations. Built for Reliability, it ensures seamless operations in High-Demand Environments.

Exatron Rx120-3i

The Exatron Rx120-3i Edge Server Series delivers powerful, secure, and versatile performance in a streamlined form factor, making it an ideal choice for businesses seeking a balance between performance and security.

Ideal for

- Edge Computing Deployments
- Virtualization and Cloud Applications
- Enterprise IT Workloads

Performance Excellence

- Supports 3rd Gen Intel® Xeon® Scalable Processors (Ice Lake) with up to 270W TDP.
- 16 DDR4 DIMM slots across 8 memory channels, supporting up to 4TB DDR4 (with RDIMM 3DS) at 3200 MHz speeds.

Versatile Expandability

- Dual PCIe Gen4 slots for network and accelerator upgrades.
- Flexible storage options, supporting up to 10 bay 2.5" hot swap (5x PCIe Gen4 Slimline connectors)

Efficient Cooling

- Using our latest chassis design, optimizes airflow to support the highest core count CPUs in an air-cooled environment within the current IT infrastructure

Front view



Rear view



Built-in Security

- TPM 2.0 support and secure firmware options to safeguard enterprise data.

Compact Design

- Optimized 1U chassis for space-efficient data center and edge deployments.

Energy Efficiency

- Efficient platinum PSU coupled with high efficiency air-flow provides unmatched power efficiency

Seamless Management

- BMC management software suite for easy monitoring, automation, and efficiency. Includes support for IPMI 2.0, Redfish, Smash, HTML5, iKVM, Media Redirection, IPMI over LAN, Serial over LAN. Managed over dedicated LAN port.

Rest easier with Exatron Services

- Pair this with Exatron's top-tier support and services for a seamless and reliable enterprise experience.



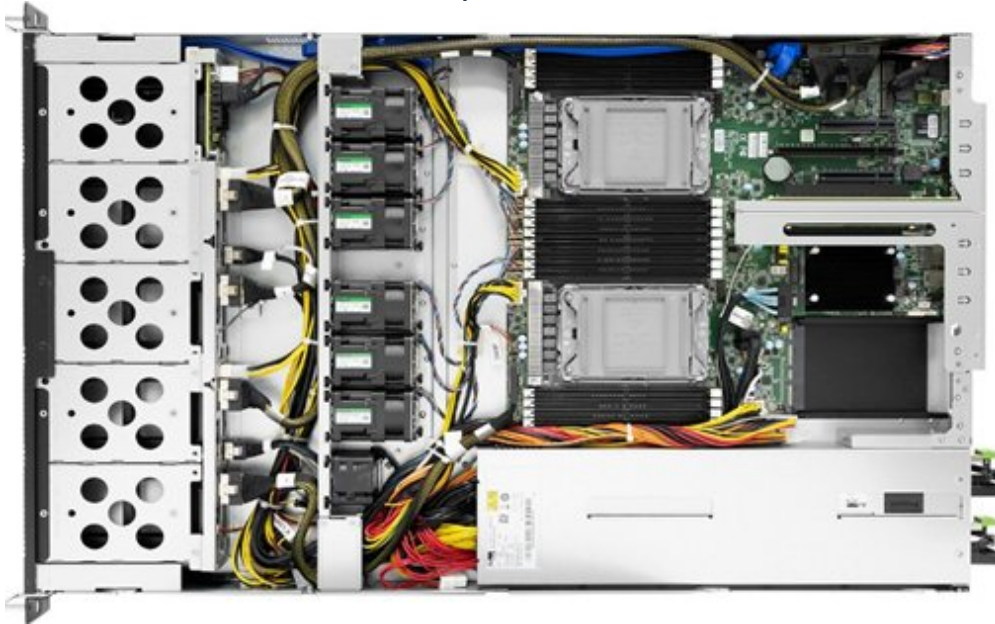
Feature	Technical Specifications
Model	Rx120-3i Edge Server Series
SKU	Rx120-3i16-10SN,Rx120-3i16-10N
Dimensions (WxDxH)	<ul style="list-style-type: none"> mm : 438 x 678.7 x 44.4 inches : 17.2 x 26.7 x 1.7
Form Factor	1U Rack Server
Processor	<ul style="list-style-type: none"> 3rd Gen Intel® Xeon® Scalable Processors (Ice Lake) Supports CPU TDP up to 270W <p>**Use over 165W CPU, please contact Exatron Technical Support for more info/details about optimized CPUs and specialized system.</p> <ul style="list-style-type: none"> CPU Interconnection: QPI Speeds 11.2 GT/s Socket Type : Socket P+ (LGA-4189)
Memory	<ul style="list-style-type: none"> 8 x memory channels per CPU (1DPC) 16 x DIMM slots support: <p>DDR4 3200/2933MHz RDIMM/LRDIMM</p> <ul style="list-style-type: none"> up to 512GB RDIMM SRx4 (16Gb) up to 1024GB RDIMM DRx4 (16Gb) up to 4096GB RDIMM 3DS 8Rx4 (16Gb) up to 2048GB LRDIMM QRx4 (16Gb) up to 4096GB LRDIMM 3DS 8Rx4 (16Gb) Intel® Optane™ DC Persistent Memory (Barlow Pass) support
Storage	<p>External :</p> <ul style="list-style-type: none"> 1U 10x2.5" hot swap (PCIe 5.0 U.2 NVMe), SAS /SATA/NVMe x 2.5" hot swap (5x PCIe Gen4 Slimline connectors) <p>Internal :</p> <ul style="list-style-type: none"> 2 x M.2/M-Key/22110/2280 (PCIe Gen3)
Drive Bays	<ul style="list-style-type: none"> 10 bay 2.5" hot swap (5x PCIe Gen4 Slimline connectors)
GPU Options	NA
PCIe	<ul style="list-style-type: none"> CPU0: 2 x PCIe Gen4 x16 slots (HHHL; one with FH I/O bracket) + 1 x OCP V3.0
Embedded NIC	1 x GbE RJ45 dedicated BMC management
Network options	1x X16 OCP/3xPCIe
NIC Ports	NA
Power Supplies	750W/1100W 1+1 Redundant power supply 80+ Platinum
Cooling Options	Air Cooled
Fans	<ul style="list-style-type: none"> 6 x 40x56mm easy swap fans 1 x 40x28mm fan

Software add-ons	NA
Bezel options	Optional
on Board	<p>SATA : Lewisburg-R PCH on-chip solution supports 10 x SATA 6.0 Gb/s</p> <ul style="list-style-type: none"> • 2 x SATA 7pin • 8 x SATA by slimline <p>(supports both SATA/PCIe by PCH HSIO)</p> <p>Network Controller :</p> <ul style="list-style-type: none"> • Realtek RTL8211E GbE for BMC dedicated management port (NCSI shared NIC - reserved for OCP & I210 by jumper setting) • Intel I210 GbE for BMC shared NIC management port by onboard connector (NCSI shared NIC - reserved for OCP V3.0) <p>Graphics : Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor</p> <ul style="list-style-type: none"> • PCIe VGA/2D Controller • <u>1920x1200@60Hz</u> 32bpp
Rear I/O	<p>LAN:</p> <ul style="list-style-type: none"> • 1 x GbE RJ45 • 1 x GbE RJ45 dedicated to BMC management <p>USB:</p> <ul style="list-style-type: none"> • 2 x USB 3.0 Type A • Video Output: • 1 x external DB-15 VGA port • Serial Port: • 1 x external COM port phone jack
Front I/O	<ul style="list-style-type: none"> • Power Button • Reset button • UID • 2 x USB 3.2 Gen1 • Power status, Drive activity, LAN activity, System alert, System ID
OEM Integrations (add-on)	NA
Embedded Management	<p>IPMI 2.0</p> <ul style="list-style-type: none"> • KVM over IP • Media redirection • Temperature, fan, voltage, PSU sensor monitor • System temperature • System ID / System fail indicator • Remote power on/off/reset • SEL message alarm through mail • SNMP support • Intel NM
BIOS	<p>BIOS Type : AMI UEFI BIOS</p> <p>SPI (Serial Peripheral Interface) FLASH Interface</p> <p>BIOS Features :</p> <ul style="list-style-type: none"> • ACPI • PXE • WOL • AC loss recovery • BIOS recovery • IPMI 2.0 KCS interface <ul style="list-style-type: none"> • SMBIOS • Serial console redirection • BIOS Boot • BIOS Recovery Mode • SRIOV • iSCSI • TPM • PCIe NTB

Security options	TPM2.0
Operating System and Hypervisors	Microsoft Windows Server 2019/2022, Redhat Linux 9.2,8.8.8.7, ubuntu 20.04LTS,22.04LTS
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit https://exatron.in/
Operating conditions	<ul style="list-style-type: none"> Storage temperature : -10°C(14°F) ~ 60°C(140°F) Operating temperature : 0°C(32°F) ~ 35°C(95°F) Storage operating humidity : 5%~95% non-condensing
Regulation and compliance	BIS, WEEE, ECC, ISO9001 Complied

- Note:**
- SAS cards are required for SAS devices support.
 - If only 1 CPU is installed, some PCIe or memory functions might be unavailable.

Open Box View



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