PRYSM®
Technology for all

PRYSM® SANKHYA-EP R101 SERVER DATA SHEET

SCALING PERFORMANCE FOR MULTIPLE WORKLOADS

Accelerating Business Needs With Cost Optimized Solution

Through innovative hardware design, software commonality and continued focus on system updates, **PRYSM®** Servers offers improved performance and pay-as-you-grow flexibility along with new features that help reduce the complexity involved in managing data for small, mid-sized and large enterprise business. These servers are designed to a **PRYSM®** -developed Behavioral Specification that defines consistent hardware layout and user interaction across all server models in this and future generations with cost optimized solution. These powerful systems are designed to meet the requirements of value segment in Small and Medium Enterprise, Business Intelligence IT, Data Analytics Storage and Cloud.

Compute Performance- With Maximum Scalability, Operational and Networking Efficiency

Designed with the **Intel® Xeon®** Processor Scalable family (Gold/Platinum) — up to 205W max TDP, **Sankhya- EP101** features power-efficient spread-core design, with massive 24 DIMM DDR4 memory—up to 3.0 TB, PCIe Gen 3 lanes for the I/O and compute capacity needed to easily handle the intense needs of data analytics or enterprise applications.

KEY HIGHLIGHTS

- *Intel Xeon processor Scalable Family–Skylake- SP*
- *Total 24 DIMM slots*
- *Hot-swappable compute modules, storage and power supplies*
- *4 x10GbE Integrated LAN ports and 1GbE dedicated management port per board*

IDEAL FOR MULTIPLE WORKLOAD

- *High performance computing workloads*
- *Scale up high Performance Storage*
- *Cloud Infrastructure with compute intense requirements*

Technical Specifications

FEATURES	PARAMETER	DESCRIPTION
Processor	Supported CPU Series	Intel® Xeon® Scalable Processor - Skylake - SP Series (Gold/Platinum)
	Thermal Design Power (TDP) wattage	Up to 205 W TDP
	Socket Type/Q'ty	Two Socket / Node - P LGA3647/(2)
	System Bus	UPI*3, PCIe Gen3 48 Lanes
Nodes	Nodes per Enclosure	1-4
Chipset	PCH	Intel® C628 Chipset
	Spec	PCIe 20 lanes, USB3.0 *10\2.0*14, SATA3 * 14, 10 LAN*4, PCIe Uplink *16/*8, 26 W (SPEC:20W)
BMC	ASIC	AST2500A1-GP [ASPEED TECHNOLOGY INC.]
Memory	Max DIMM slots	2 DIMMs/CH, 6 CH/CPU, Total 24 DIMMs
	Max DIMM slots	DDR4 RDIMMs or LRDIMMs
	Memory Capacity	8/16/32/64/128 GB, Total 3072 GB
	Memory Speed	2666 MT/s for 1 DIMM/CH 2400 MT/s for 2 DIMM/CH
	Memory Voltage	1.2V
Expansion Slot (per NODE)	Ethernet	10 G *4 with X557-AT4 (Coppervale) 1G *1 for Management with RTL8211F
	PCIe 3.0	Riser 1 - PCIe 3.0 x 24 ; Riser 2 - PCIe 3.0 x 24
	Rear and Front IO	Rear IO : USB 3.0 x 2; RJ45 10G 4 Port *1, RJ45 Serial 1 Port *1, BMC RJ45 1G 1 Port *1; DB-15 *1
	VGA	(1) from BMC
RAID Modules	INTEL	RMSP3CD080F, RMSP3HD080E, RMS3JD160J,RSP3QD160J,RSPGD016J
Power Supply	Type	INTEL CPRS
	Redundancy	1+1
	Input Range	Full range AC (100 - 240 VAC)
	Output Watts	750 W, 1100W
	Efficiency	DC 750W Gold, AC 1100W Platinum
Chassis	Form Factor	1U Rack Mountable
	Storage	3.5" x 4 (up to 4 x NVMe/SAS) 2.5"x 8 (up to 4 x SAS +4 x NVMe/SAS)
	Dimensions	16.93" x 27.95" x 1.72"
BIOS	BRAND	AMI
	Feature	Hardware Monitor/SMBIOS 3.0/PnP/Wake on LAN/Boot from USB device/PXE via LAN/Storage/User Configurable FAN PWM Duty cycle/Console Redirection/ACPI Sleeping rate
System Cooling	FAN	6 Dual rotor system 40 x 40 mm fans
Operating Environment	Operating Temp	10° C ~ 35° C (50° F ~ 95° F)
	Non Operating Temp	-40 ° C ~ 70 ° C (-40° F ~ 158 ° F)
	In/Non-Operating Humidity	25° C to 35° C
ROHS	RoHS 6/6 Complaint	Yes

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