

PRYSM®
EP-R100
SERVER
DATA SHEET



REDEFINE COMPUTER PERFORMANCE AND BUSINESS VALUES

Cost Optimized Solution- Confronting Business Needs

Through innovative hardware design, software commonality and continued focus on system updates, **PRYSM®** Servers offer 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 businesses. These servers are designed to a **PRYSM®** developed Behavioral Specification that defines consistent hardware layout and user interaction across all server models in present 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 & Networking Efficiency

Designed with high level of integration and flexibility, **PRYSM® EP-R100** servers help you understand the specs to be chosen in accordance to what you use and what's only there. Expand your possibilities with 1U systems based on the Server Board EP-R100, the server product from **PRYSM®** family. This server family features power-efficient spread-core design, massive 24 DIMM DDR4 memory—up to 3.0 TB, plus 80 PCIe Gen 3 lanes for the I/O and compute capacity needed to easily handle the intense needs of data analytics or enterprise applications. It is designed to support the performance and features of dual **Intel® Xeon®** processors E5-2600 v4, family up to 145W with 1-GB Ethernet ports.

*With 1U rack form factor, the **PRYSM® EP-R100** delivers an excellent balance of outstanding performance, availability and flexibility for growing network infrastructure and high computing applications*

***PRYSM® EP-R100** is an excellent choice for applications such as storage for databases, Small and Medium Enterprise, Business Intelligence IT, Data Analytics Storage and Cloud*

Technical Specifications

FEATURES		DETAILS	
Server Board			
CPU	Dual Intel Xeon E5-2600 V4 processor sockets, up to 145 W TDP		
Chipset	Intel C612 Chipset		
Memory Type	DDR4 RDIMMs or LRDIMMs at 2133MT/s maximum		
Memory Capacity	Up to 1.5TB		
Maximum DIMM Slot	24 DIMMs, 3 DIMMs per channel, 4 Channels per processor		
Memory Speed	DDR4 RDIMM: 1600 MT/s (3DPC), 1866 MT/s (2DPC), 2133(1DPC) DDR4 LRDIMM: 1600 MT/s (3DPC), 2133(2DPC & 1DPC)		
Memory Voltage	1.2V, DDR4 Standard I/O Voltage		
ON-Board LAN Options	2x1Gbe		
External I/O Connectors			
USB	Three USB 2.0/3.0 on back panel; Two USB 2.0/3.0 on front panel;		
Serial	RJ45 Serial Port A		
Ethernet	Dual RJ45, network Interface connectors supporting 1GBase T; Single RJ45 - dedicated 1GbE Server management Port		
Video	DB-15 VGA connector, front and back		
Server Specification			
Rack Dimension	17.25" width x 28" Length x 1.72"height		
PSUs per chassis	Up to 2, supporting 1+0, 1+1 Redundant Power and 2+0 Combined Power		
System Fans	6 managed System Fans		
Power Supply	750W AC 80 PLUS Platinum		
Expansion Type			
I/O Modules	Two Proprietary slots(x8 PCIe) supporting 1x Intel I/O Expansion Module and 1x Intel Integrated RAID Module		
Riser cards	Up to 3 Riser cards for PCIe add in cards		
Expansion (1U)	CPU Source	Slot	Options
Riser Card 1	CPU 1	Single PCIe 3.0 Slot	x16 Electrical, x 16 Mechanical
Riser Card 2	CPU 2	Single PCIe 3.0 Slot	x16 Electrical, x 16 Mechanical
I/O Module	CPU 1	Single	x 8 Electrical, proprietary connection
RAID Module	CPU 1	Single	x 8 Electrical, proprietary connection
Storage Options	Size	# of Drives	Type
Front Drive Bays: Choice of 3.5"	3.5	Four	6Gbps SATA or 12 Gbps SAS w/without controller 2.5" SSDs can be used in the 3.5" bays
Storage Options	Size	# Drives	Type
Internal eUSB	eUSB	One	One 2mm eUSB module via 2.5 pin connector
SATA DOM	SATA DOM	Two	Support for two internal SATA Disk on Modules mounted directly on board SATA Ports
SYSTEM Specification			
Server Management	Integrated Baseboard management controller, IPMI 2.0 Complaint Dedicated RJ45 Management Port Remote KVM Management and device mapping available via RMM4 Lite		
BMC Management	IPMI 2.0 Complaint		
BIOS Type	UEFI BIOS		
Warranty	3- year limited		

Contact Us:

Velankani Electronics Pvt. Ltd.
43, Electronics City, Phase-1, Hosur Road, Bangalore- 560100, India
Web: www.velankanigroup.com | www.prysmelectronics.com
Tel: +91- 80466 85850
Mail: insidesales@velankanigroup.com



Quick Specs: www.prysmelectronics.com/servers

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