PRYSM®
AR22M1

SERVER DATA SHEET

COMPUTING PERFORMANCE WITH HIGH MODULARITY

Enrich your business with high performance and high modularity servers

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-sizedand 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 MediumEnterprise**, Business Intelligence IT, Data Analytics Storage, AI and Cloud.

Compute Performance -
With Maximum Scalability, Operational & Networking Efficiency
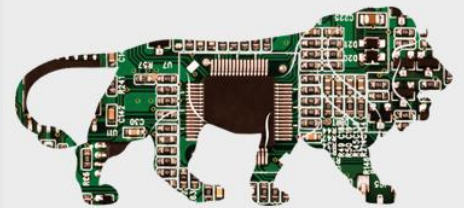
Expand your possibilities with 2U systems based on the **PRYSM AR22M1,**the server product from **PRYSM** family. This server family features power- efficient spread-core design, massive 32 DIMM DDR4 memory—up to 4.0 TB, PCIe Gen 4 lanes for the I/O and compute capacity needed to easily handle the intense needs of data analytics or enterprise applications.
Designed to support the performance and features of **AMD EPYC ZEN3** Processors, family up to 280W TDP.

*In a rack-optimized 2U form factor, the **PRYSM** delivers an excellent balance of outstanding performance, availability and flexibility for growing network infrastructure and high computing workload applications*

PRYSM AR22M1 IS ANEXCELLENT CHOICE FOR

- *Server with real time computerequirement*
- *For hot and warm tier data and dense NVMe storage*
- *Public and hybrid*

MAKE IN INDIA

IS 13252 (Part1)/
IEC 60950-1

RoHS

R-62004545

Technical Specifications

FEATURES	PARAMETER	DESCRIPTION
Processor	Supported CPU Series	Supports up to 2 processors of AMD EPYC 7003 Series (Zen3)
		Min 8 Core – Max 64 Core per Processor (Boost clock Up to 3.3GHz)
	Thermal Design Power (TDP)	Up to 280W TDP , L3 CACHE - 256MB
Chipset	AMD	AMD EPYC™ MILAN
Front hard drive	Storage	Up to 24x 2.5" Hard drives **(SATA Per port 1.92TB @ 6Gb/s)** **(NVMe per port 3.84TB) (M.2 per port 1.92TB)** Config:1) 18 SATA+6 NVMe Config:2) 20 SATA+4 NVMe Config:3) 22 SATA+2 NVMe Config:4) 24 SATA
Dimensions	W x H x D (mm)	450 x 88 x 780 / 35 KG
BMC Chip	ASIC	AST2500
Memory	Max DIMM slots	2 DIMMs/CH, 16 CH/CPU, **Total 32 DIMMs Support**
	DIMM type	DDR4 RDIMMs or LRDIMMs
	Memory Capacity	16/32/64/128 GB, up to total **4TB capacity**
	Memory Speed	support 3200 MHz
External port & PCIe	Front I/O	Front Port: 1x VGA, 1x USB 3.0
	Rear I/O	Rear: 1x VGA, 1x COM port, 2x USB3.0
	PCIe	PCIe expansion slots: 4 PCIe Gen4.0 full-height slots, 1 PCIe Gen 3x16 OCP Mezzanine slot on OCP slot
Networking	Ethernet	1G*1 management network port On-board
	OCP 2.0	2.5, 5.0 or 8.0GT/s network port with OCP 2.0 add-on card
External Cards	RAID	X8 and X16 Hardware RAID support
	GPU	X8 and X16 FHHL GPU support
	NIC	X4, X8 and X16 FHHL and HHHL NIC support, Rj45 - 1G & 10G – Maximum 4 port support SFP+ - 10Gb/s Per Port , QSFP56 - 200Gb/s Per Port
Drive Control	Backplane	• U.3 based connector, backward compatible with U.2 • Hot swappable • LED management using UBM controller with the help of Midplane.

Power Supply	Redundancy	1+1
	Input Range	Full range AC (100 - 240 VAC)
	Output Watts	1200W/1600W
	Efficiency	Titanium
Chassis	Form Factor	2U Rack Mountable
BIOS/BMC	BRAND	AMI / Insyde
OS	OS Supported	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Ubuntu, Debian
Security	TPM 2.0 backward compatible with TPM 1.2	TPM/TCM (optional) Locked upper cover of chassis
Intelligent temp. control	Temperature control	CPLD Based PWM fan control
System Cooling	FAN	6 hot swap system 60x60mm fans, 66W
Operating Environment	Operating Temp	5ºC - 35ºC (indoor)
	Non-Operating Temp	-40ºC - 70ºC
Humidity	Operating relative humidity	20% - 80%
	Non-operating relative humidity	10% - 95%
BIS	Model # PRYSM-AR22M1	BIS R-62004545
ROHS	RoHS 6/6 Complaint	Yes