HARSHPRO™ IP66 SERVER

Developed and manufactured in Singapore, the HarshPro™ IP66 Server is a powerful rugged server that extends data center functionality to harsh environments. The server is built for performance with an Intel® Xeon®[1] processor, multiple memory configurations, and high-capacity, high speed NVMe SSDs, enabling distributed cloud functionality and application containerization wherever you need it.

Engineered to work in conditions where standard servers fail, the server has an IP66 enclosure that is water resistant, dustproof, and can work in wide operating temperature ranges. The HarshPro IP66 server is reliable and maintenance-free with a passive fanless cooling design with zero moving parts. The server has a standard 12-volt DC input or PoE power options and is optimized for sites on the edge where power is limited.

HarshPro IP66 server is designed to work standalone or clustered in remote locations. The server supports functionality commonly used in data centers including automated provisioning and remote management. The baseboard management controller (BMC) supports popular remote management technologies like IPMI, PXE, Redfish®, and KVM over IP which allows it to be fully administered remotely down to the BIOS level.

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[1] Intel and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

HARSHPRO IP66 SERVER SPECIFICATIONS[2]

System Chipset

CPU:	Intel® Xeon® D-1539
Maximum Speed:	1.6 GHz
Max Turbo Frequency:	2.2 GHz
L3 Cache:	12 MB
Cores:	8
Threads:	16
BIOS:	AMI APTIO-V UEFI version 2.4 UEFI Platform Initialization version 1.3

Memory

Technology:	Dual channel 2133 MHz ECC DDR4
Slot:	4 x RDIMM (up to 32 GB per slot) or UDIMM (up to 16 GB per slot), 288 pins
Maximum Capacity:	128 GB (RDIMM), 64 GB (UDIMM)

Baseboard Management Controller (BMC)

Chipset:	Aspeed AST2500
Firmware:	AMI MegaRAC® SP-X
Protocols:	Redfish® 1.5, KVM over IP, IPMI 2.0

Ethernet

Network Controllers:	1 GbE Intel® i210IT 10 GbE SFP+ Intel® SoC
Interfaces:	2 x PoE++ RJ45 (PoE 802.3bt Type 4) 2 x SFP+

Expansion Slots

M.2 PCIe:	6 x M.2[3] M Key 1 x M.2(2230/2242) E Key (for WiFi)

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[2] *Specifications listed here may be subject to change*
[3] *Form Factor Supported: 2230/2242/2260/2280/22110*

Storage

Technology:	M.2 NVMe
Slot:	6 x M.2 slots (256 GB/512 GB/1 TB/2 TB)
Maximum Capacity:	12 TB (6 X 2 TB)

Display

Interface:	KVM over IP

LED and Switch

Button / LED:	Combined LED status & pushbutton

Power

Input Voltage:	12VDC (with reverse polarity protection)
Power Consumption:	Typical: 80 watts, Maximum: 140 watts
POE++[4]:	PD 71W x 2

Environment

Operating Temperature:	-20°C to 50°C
Non-operating Temperature:	-40°C to 85°C
Humidity:	10-90% RH (operating and non-operating)
Vibration:	5 Grms, 5-500 Hz, 3 Axes
Shock:	50 Grms, half-sine 11 ms duration
IP rating:	IP66
Altitude:	Up to 15,000 ft above sea level

Mechanical

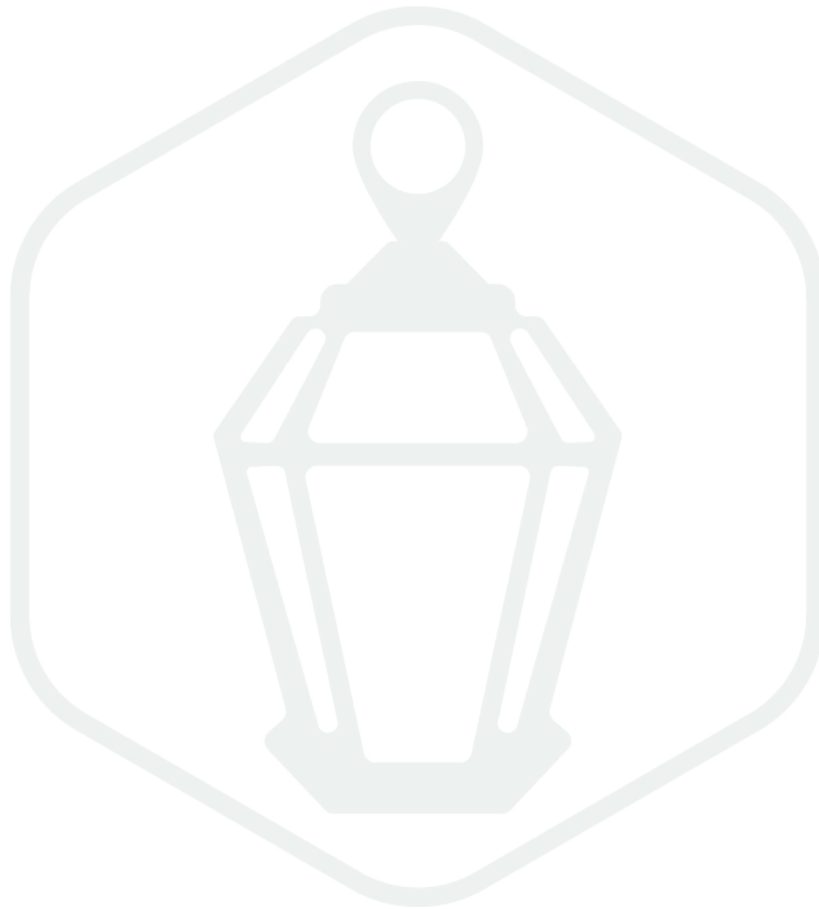|	
Dimensions:	382 mm (L) x 352 mm (W) x 112 mm (H)
Weight:	15kg
Installation:	Wall mount, Standalone, DIN rail

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[4] *OE++ IEEE802.3bt Type 4 Class 8*

OS Support:	CentOS v7.4 Red Hat® Enterprise Linux® (RHEL) v7.4/7.5/7.6 Red Hat® Enterprise Linux® (RHEL) Atomic v7.4 Ubuntu v18.04 Windows Server 2012 R2 Windows Server 2016 Windows 10 Pro
Certifications[5]:	EMC, FCC, CE, WEEE, RoHS3, REACH

[5] *Equipment pending certifications*