

# RM646-ERX810

C741

5th/4th Gen Intel® Xeon® Scalable Family  
Rackmount Edge-Server System

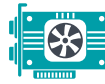


## KEY FEATURES



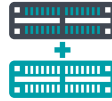
### Powerful 4U Edge AI Server

Dual 4th/5th Gen Intel® Xeon® Scalable processors for great AI computing



### Up to Triple GPU Expansion

Supports dual-slot GPU cards with PCIe Gen 5 signals



### High-Availability Storage

up to 5 hot-swappable 3.5" drive bays



### Versatile I/O

4 GbE, 1 IPMI LAN, 4 USB 3.2, 1 DP, 1 M.2 2280 M-Key, 2 MCI/O

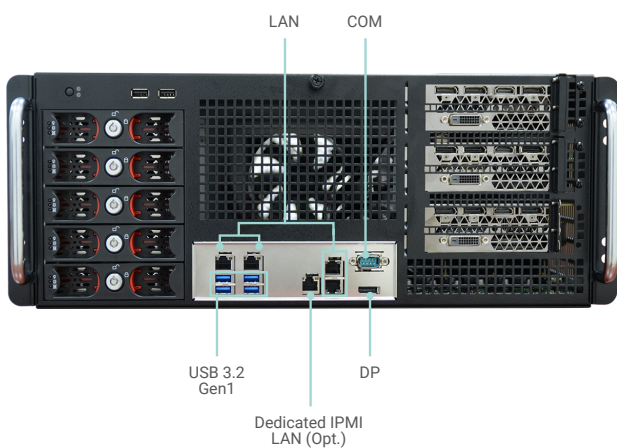


### IPMI

OOB remote management



## PANEL

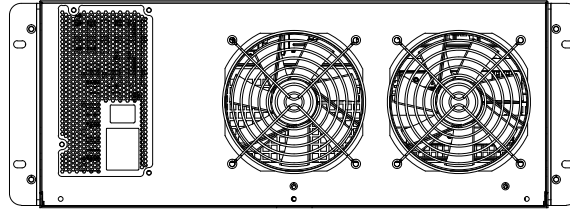


Front View

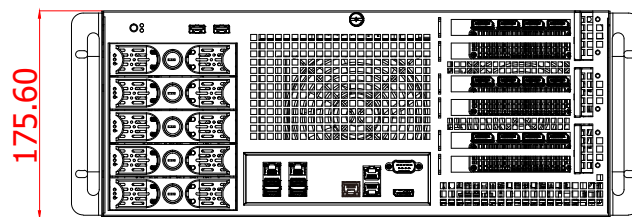
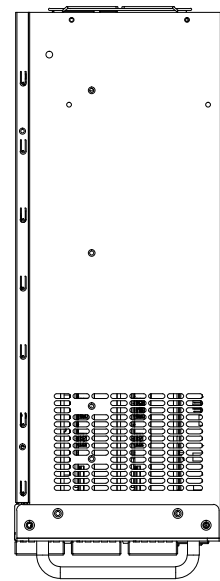
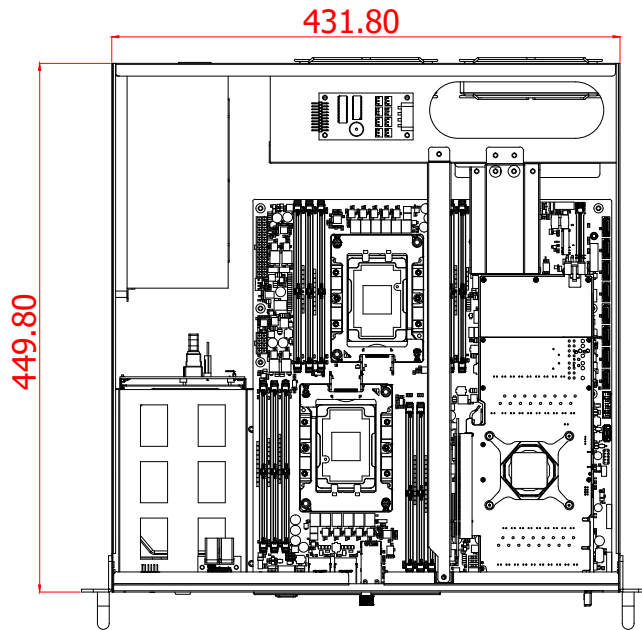
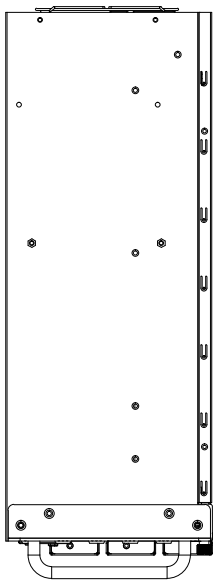


Rear View

# DIMENSIONS



Rear View



Front View

## SPECIFICATION

SYSTEM	Processor	5th Generation Intel® Xeon® Scalable Processor Family, LGA 4677 Socket: Intel® Xeon® Gold 6548Y+ Processor (32 Cores, 60 MB Cache, up to 4.1 GHz); 250W Intel® Xeon® Gold 6548N Processor (32 Cores, 60 MB Cache, up to 4.1 GHz); 250W Intel® Xeon® Gold 6538N Processor (32 Cores, 60 MB Cache, up to 4.1 GHz); 205W Intel® Xeon® Gold 6530 Processor (32 Cores, 160 MB Cache, up to 4 GHz); 270W Intel® Xeon® Gold 6526Y Processor (16 Cores, 37.5 MB Cache, up to 3.9 GHz); 195W Intel® Xeon® Gold 5520+ Processor (28 Cores, 52.5 MB Cache, up to 4 GHz); 205W Intel® Xeon® Gold 5515+ Processor (8 Cores, 22.5 MB Cache, up to 4.1 GHz); 165W Intel® Xeon® Silver 4516Y+ Processor (24 Cores, 45 MB Cache, up to 3.7 GHz); 185W Intel® Xeon® Silver 4514Y Processor (16 Cores, 30 MB Cache, up to 3.4 GHz); 150W Intel® Xeon® Silver 4510 Processor (12 Cores, 30 MB Cache, up to 4.1 GHz); 150W Intel® Xeon® Silver 4510T Processor (12 Cores, 30 MB Cache, up to 3.7 GHz); 115W Intel® Xeon® Silver 4509Y Processor (8 Cores, 22.5 MB Cache, up to 4.1 GHz); 125W  4th Generation Intel® Xeon® Scalable Processor Family, LGA 4677 Socket: Intel® Xeon® Gold 6448Y Processor (32 Cores, 60 MB Cache, up to 4.10 GHz); 225W Intel® Xeon® Gold 6438N Processor (32 Cores, 60 MB Cache, up to 3.60 GHz); 205W Intel® Xeon® Gold 6430 Processor (32 Cores, 60 MB Cache, up to 3.40 GHz); 270W Intel® Xeon® Gold 6428N Processor (32 Cores, 60 MB Cache, up to 3.80 GHz); 185W Intel® Xeon® Gold 6426Y Processor (16 Cores, 37.5 MB Cache, up to 4.10 GHz); 185W Intel® Xeon® Gold 6418H Processor (24 Cores, 60 MB Cache, up to 4.00 GHz); 185W Intel® Xeon® Gold 5420+ Processor (28 Cores, 52.5 MB Cache, up to 4.10 GHz); 205W Intel® Xeon® Gold 5418N Processor (24 Cores, 45 MB Cache, up to 3.80 GHz); 165W Intel® Xeon® Gold 5418Y Processor (24 Cores, 45 MB Cache, up to 3.80 GHz); 185W Intel® Xeon® Gold 5415+ Processor (8 Cores, 22.5 MB Cache, up to 4.10 GHz); 150W Intel® Xeon® Silver 4416+ Processor (20 Cores, 37.5 MB Cache, up to 3.90 GHz); 165W Intel® Xeon® Silver 4410T Processor (10 Cores, 26.25 MB Cache, up to 4.00 GHz); 150W Intel® Xeon® Silver 4410Y Processor (12 Cores, 30 MB Cache, up to 3.90 GHz); 150W
	Chipset	Intel® C741 Chipset
	Memory	16 x ECC-RDIMM up to 1024GB DDR5 Max. 5600MHz
	BIOS	Insyde
	GRAPHICS	Controller BMC AST2600  Display 1 x DP
STORAGE	External	4 SATA 3.0 (RAID 0/1/5/10)
	Internal	1 M.2 2280 M key
EXPANSION	Interface	3 x PCIe x16(Gen5)
AUDIO	Audio Codec	ALC888S
ETHERNET	Controller	4 x Intel® I210 IPMI: RTL8211F
FRONT I/O	LED	1 x Power LED 1 x HDD LED
	Ethernet	4 x GbE 1 x Dedicated IPMI LAN
	Serial	1 x RS-232/422/485 (DB-9)
	USB	4 x USB 3.2 Gen1
	Display	1 x DP
BUTTON	Button	1 x Power Button
COOLING	Fan	12 CM Fan x 2
SECURITY	TPM	TPM 2.0
POWER	Supply	ATX PS/2 or Mini Redundant PSU
ENVIRONMENT	Operating Temperature	0 to 40°C
	Storage Temperature	-30 to 60°C with RTC Battery; -40 to 85°C without RTC Battery
	Relative Humidity	5 to 90% RH (non-condensing)
MECHANISM	Construction	Heavy Industrial Steel
	Mounting	Flexible hold down bar
	Dimensions (W x H x D)	431.8 x 175.6 x 449.8mm
	Weight	TBD
	Color	Black
STANDARDS AND CERTIFICATIONS	Shock	<b>Operating:</b> 3G <b>Non-operating:</b> 5G
	Vibration	<b>Operating:</b> random 5~500Hz 1G <b>Non-operating:</b> sweep sine 10~500Hz 1.5G
	Package Drop	ISTA Project 1A
	Certification	TBD

## PACKING LIST

• 1 RM646-ERX810 System Unit

## ORDERING INFORMATION

Model Name	Part Number	Description
RM646-ERX810	TBD	TBD