

# RM840-PR810

C622

1st/2nd Gen Intel® Xeon®  
Rackmount System



## KEY FEATURES



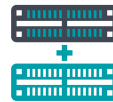
### Server CPU

Intel® 1st/2nd Xeon® Scalable Family



### Mass Memory Capacity

12 DDR4 RDIMM up to 384GB



### Multiple Expansion

4 PCIe x16, 1 PCIe x8, 1 PCI, 1 M.2



### Rich I/O

2 Intel 10GbE, 2 Intel GbE, 2 COM, 8 SATA 3.0,  
5 USB 2.0, 6 USB 3.1 Gen1



### 15 Years Long Term Support

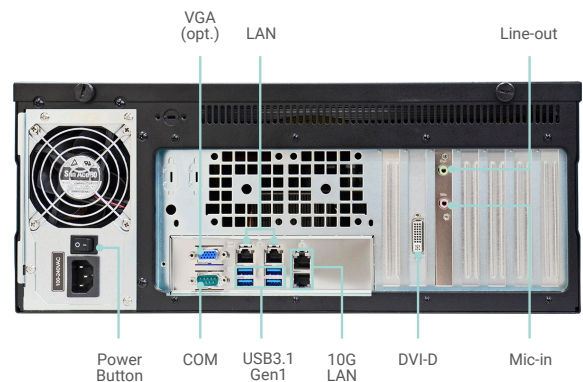
15-Year CPU Life Cycle Support Until Q3' 33



## PANEL

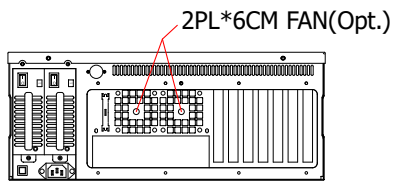


Front View

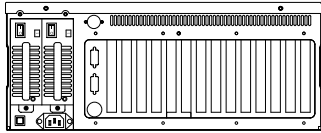


Bottom View

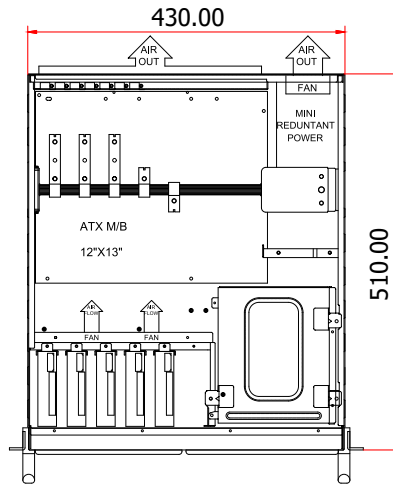
# DIMENSIONS



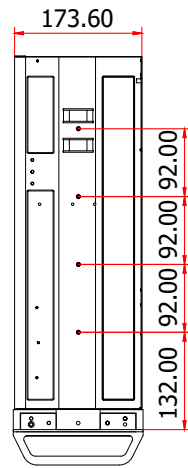
Rear View



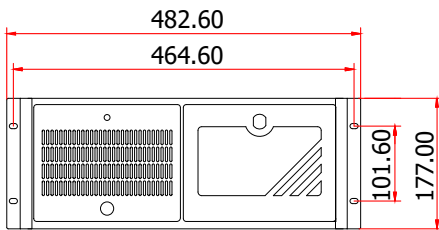
Rear View



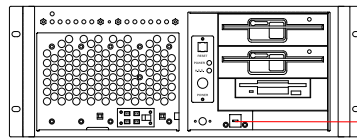
Top View



Right-side View



Front out-side view



Front in-side View

## SPECIFICATION

SYSTEM	<b>Processor</b>	<p>1st Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket:            Intel® Xeon® Platinum 8160T (24 Cores, 27.5M Cache, up to 3.7 GHz); 150W            Intel® Xeon® Gold 6138T (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 6138 (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 6130T (16 Cores, 22M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 6130 (16 Cores, 22M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 6126T (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 6126 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 5120T (14 Cores, 19.25M Cache, up to 3.2 GHz); 105W            Intel® Xeon® Gold 5119T (14 Cores, 19.25M Cache, up to 3.2 GHz); 85W            Intel® Xeon® Gold 5118 (12 Cores, 16.5M Cache, up to 3.2 GHz); 105W            Intel® Xeon® Silver 4116T (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W            Intel® Xeon® Silver 4116 (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W            Intel® Xeon® Silver 4114T (10 Cores, 13.75M Cache, up to 3.0 GHz); 85W            Intel® Xeon® Silver 4110 (8 Cores, 11M Cache, up to 3.0 GHz); 85W            Intel® Xeon® Silver 4109T (8 Cores, 11M Cache, up to 3.0 GHz); 70W            Intel® Xeon® Bronze 3106 (8 Cores, 11M Cache, 1.7 GHz); 85W</p> <p>2nd Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket:            Intel® Xeon® Gold 6252N (24 Cores, 35.75M Cache, up to 3.6 GHz); 150W            Intel® Xeon® Gold 6238T (22 Cores, 30.25M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 6230T (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W            Intel® Xeon® Gold 6230N (20 Cores, 27.5M Cache, up to 3.5 GHz); 125W            Intel® Xeon® Gold 6230 (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W            Intel® Xeon® Gold 6226 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W            Intel® Xeon® Gold 5220T (18 Cores, 24.75M Cache, up to 3.9 GHz); 105W            Intel® Xeon® Gold 5218T (16 Cores, 22M Cache, up to 3.8 GHz); 105W            Intel® Xeon® Gold 5218N (16 Cores, 22M Cache, up to 3.7 GHz); 110W            Intel® Xeon® Gold 5215 (10 Cores, 13.75M Cache, up to 3.4 GHz); 85W            Intel® Xeon® Silver 4216 (16 Cores, 22M Cache, up to 3.2 GHz); 100W            Intel® Xeon® Silver 4215 (8 Cores, 11M Cache, up to 3.5 GHz); 85W            Intel® Xeon® Silver 4214 (12 Cores, 16.5M Cache, up to 3.2 GHz); 85W            Intel® Xeon® Silver 4210 (10 Cores, 13.75M Cache, up to 3.2 GHz); 85W            Intel® Xeon® Silver 4209T (8 Cores, 11M Cache, up to 3.2 GHz); 70W</p>
	<b>Chipset</b>	Intel® C622 Chipset
	<b>Memory</b>	12 x 288-pin RDIMM up to 384GB Single Channel DDR4 up to 2133/2400/2666/2933 MHZ (Support Intel DC Persistent Memory)
	<b>BIOS</b>	Insyde
	<b>GRAPHICS</b>	<b>Controller</b>
	<b>Feature</b>	IPMI
	<b>Display</b>	1 x VGA (opt.)
STORAGE	<b>External</b>	External 2x 5.25" (option change 1x 2.5" by covert bracket) External 1x 3.5" (option change 1x 2.5" by covert bracket)
	<b>Internal</b>	1 M.2 M Key2280 (PCIe Gen3 x4 NVMe/SATA)
	<b>Interface</b>	4 x PCIe x16 (Gen 3) 1 x PCIe x8 (Gen 3) 1 x PCI 1 x BMC Module slot for SEM2500/2510 (IPMI) 1 x 100GbE slot (x4 + x8) for EXT-100GbE proprietary module
AUDIO	<b>Audio Codec</b>	ALC888
	<b>Interface</b>	Onboard Front Audio Pin Header
ETHERNET	<b>Controller</b>	2 x Intel® I210AT (10/100/1000Mbps) 1 x Intel® x557-AT2 (10GbE)
FRONT I/O	<b>LED</b>	1 x Power LED 1 x HDD LED
	<b>Buttons</b>	1 x Power Button 1 x Reset Button
REAR I/O	<b>Ethernet</b>	2 x GbE (RJ-45) 2 x 10 GbE x557-AT2 <b>IPMI 2.0:</b> 1 share w/ i210AT (opt.)
	<b>Serial</b>	1 x RS-232 (DB-9)
	<b>USB</b>	4 x USB 3.1 Gen1 2 x USB 2.0 stack (opt.w/ RJ45+USB2.0 stack)
	<b>Display</b>	1 x VGA (opt.)
	<b>Audio</b>	Onboard Front Audio Pin Header
	<b>Cutout</b>	DB-9 x 2
BUTTON	<b>Button</b>	1 x Power Button 1 x Reset Button
COOLING	<b>Fan</b>	2 x (90mm = 51.0CFM) Fans
WATCHDOG TIMER	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds
SECURITY	<b>TPM</b>	Infineon TPM2.0 (opt.)
POWER	<b>Supply</b>	ATX PS/2 Power Supply 650W

## SPECIFICATION

OS SUPPORT	Microsoft	Windows 10 IoT Enterprise LTSC RS5(64-bit) Windows Server 2019 Windows Server 2016
	Linux	Linux
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)	483 x 177 x 510 mm
	Weight	17.9kg
	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	CE, FCC class A

## ORDERING INFORMATION

Model Name	Part Number	Description
RM840-PR810-C222IR	750-RM8400-000G	RM840-PR810:4U Rackmount System PR810-C222IR, Dual CPU cooler, 650W, F/G RoHS

## PACKING LIST

• 1 RM840-PR810 System Unit
• 2 CPU Cooler (LGA3657, 205W)
• 2 SATA Cable (650mm, with Lock)
• 2 System Fan (90mm, 51.0CFM ea)