



EDGE AI SERVER

## LLM-3U-AM5

3U Edge AI Rackmount Server with AMD Ryzen™ 9000/8000/7000 Processors and B650 Chipset

## Features

- Support AMD Ryzen™ 9000/8000/7000 Series Desktop Processors & EPYC 4004 (Max 170W)
- AMD B650 Chipset
- 4x DDR5 5200 UDIMM. Max. up to 192GB (Non-ECC)
- 2x Broadcom 10GbE LAN (SFP+), 2x GbE LAN
- Dual 4K Display: 1x DP, 1x HDMI
- 2x PCIe x16 Gen 5, 1x PCIe x4 (Open End), 1x PCIe x1
- 2x M.2 M Key, 1x M.2 E Key
- 1x 2.5" and 1x 3.5" SATA SSD Drive Bays (Support RAID 0,1)
- 6x USB 3.2 Gen 2 (Rear), 2x USB 2.0 (Front)
- Optional Out-of-Band Management
- 850W Single Power Supply
- Support TPM 2.0
- UL 62368 Ed. 3, CE, FCC Class B (pending)

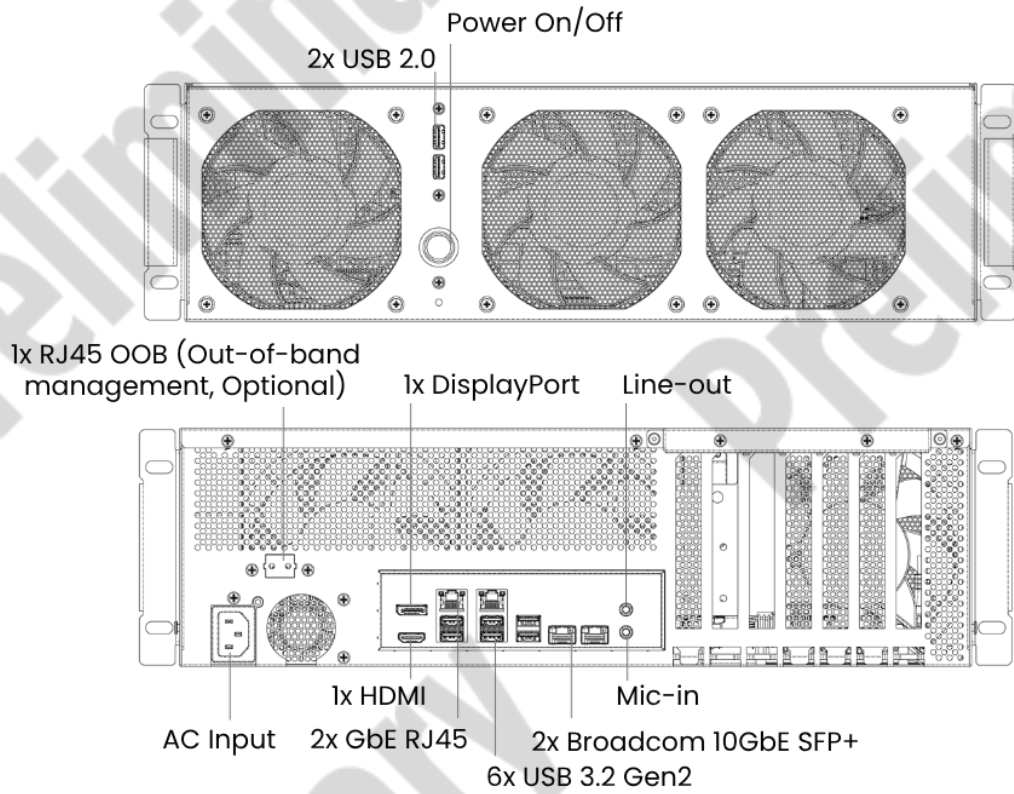


## Specifications

System		Power	
Processor	Support AMD Ryzen™ 9000/ 8000/ 7000 Series Desktop Processors & EPYC 4004 (Max 170W TDP)	Power Mode	AT, ATX (Default ATX)
	- AMD Ryzen™ 9000/ 8000/ 7000 Series Desktop Processors	Power Supply	1x 850W Single Power Supply
	- AMD EPYC 4004 Processors		AC: 115 to 230 V
System Chipset	AMD B650	Power Connector	IEC 60320 C14
LAN Chipset	GbE 1 & GbE 2: Intel I210AT LAN (Support Wake-on-LAN and PXE)	System Cooling	
	10GbE 3 & 10GbE 4: Broadcom BCM57412 LAN (Support PXE)	Fan	1x CPU Fan Cooler 4x Internal 8038 Fans
Audio Codec	Realtek ALC897-VA2-CG	Environment	
System Memory	4x 288-pin DDR5 5200 UDIMM. Max. up to 192GB (Non-ECC)	Operating Temperature	0°C to 35°C with 0.6 m/s airflow
BIOS	AMI UEFI BIOS	Storage Temperature	-20°C to 80°C
Watchdog	Software Programmable Supports 1~255 sec. System Reset	Relative Humidity	10% to 95% (non-condensing)
TPM	TPM 2.0	Certification	UL 62368 Ed. 3, CE, FCC Class B (pending)
		Vibration	With SSD: 1 Grms (5 - 500 Hz, 0.5 hr/axis)
		Shock	With SSD: NA-G half-sin 11ms
Display		Physical	
Display Port	1x DisplayPort 1.4a	Form Factor	3U
	Max Resolution: 4096x2304 @60Hz	Dimensions (WxDxH)	TBD
HDMI	1x HDMI 2.0	Weights	TBD
	Max Resolution 4096 x 2304 @60Hz	Construction	Heavy Duty Metal
Multiple Display	2x Independent Displays	Mounting Options	Rackmount
Storage			
M.2 M-Key	2x M.2 M-Key (2280, PCIe x4) Support NVMe Storage (1x M.2 M-Key shared with PCIe #4 Slot)		
SSD/HDD	1x 2.5" Internal SATA SSD Drive Bay (15mm) 1x 3.5" Internal SATA SSD Drive Bay Support RAID 0,1		
Expansion			
M.2 E-Key	1x M.2 E-Key Type: 2230 (Support PCIe x1 + USB 2.0; Support CNVi) Devices Supported: Intel® AX210 Wi-Fi 6E & BT-5.1		
PCIe	PCIe Slot from Left to right: #1 Slot: PCIe x16 Physical Slot (x16 Lane or x8 Lane) #2 Slot: PCIe x4 Physical Slot (x1 Lane, Open End) #3 Slot: PCIe x16 Physical Slot (No Signal or x8 Lane) #4 Slot: PCIe x4 Physical Slot (x4 Lane, Open End, shared with M.2 M-Key Slot)		
Card Dimension	312 (L) x 111 (H) mm, 3x dual slot, 1x single slot		
I/O			
Audio	Line-out/Mic-in		
LAN	2x GbE RJ45 2x Broadcom 10GbE SFP+		
OOB	1x RJ45 (Optional)		
USB	6x USB 3.2 Gen2 (Rear) 2x USB 2.0 (Front)		
Others	1x Power Switch with Blue LED 1x Recovery Button 1x Reset Button 1x CMOS Battery 1x Buzzer		
Internal I/O			
USB	2x USB 2.0 2x USB 3.2 Gen 1		
Operating System			
Windows	Windows 11 22H2 GAC (64-Bit)		
Linux	Linux Kernel 5.x Ubuntu 22.04.4 LTS		

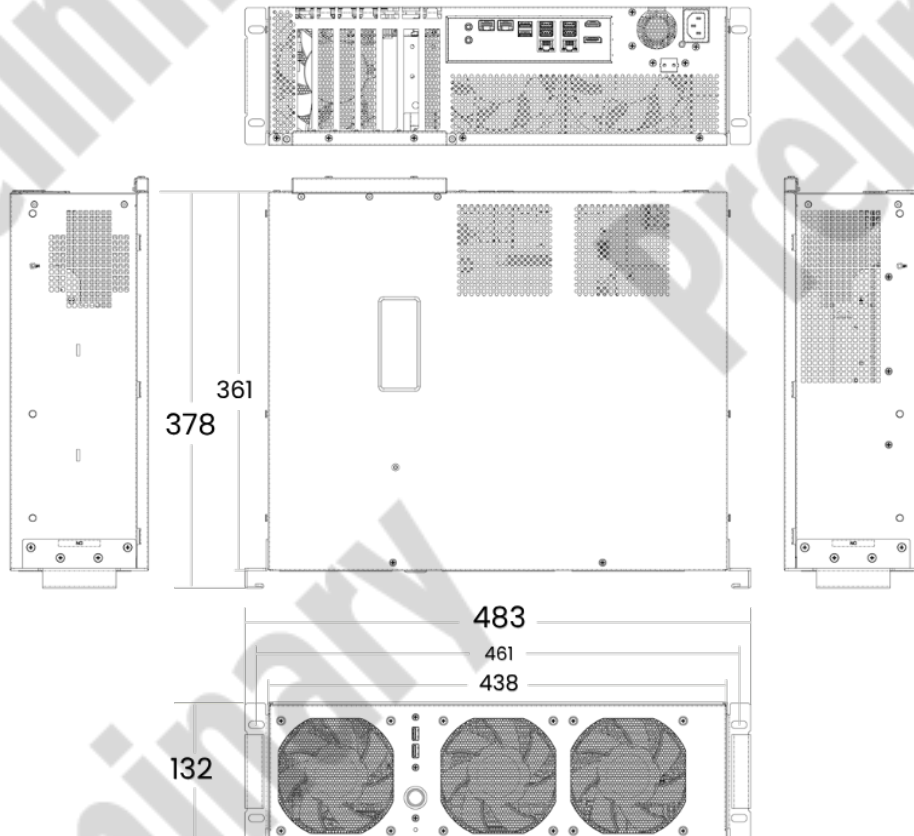
• All specifications and photos are subject to change without notice.  
• Operating Temperature: 0°C to 25°C when paired with GPUs exceeding 210W TDP

External I/O Mechanical Layout



Dimension

Unit: mm



## Compliances and Standards

Vibration	With SSD: 1 Grms (5 - 500 Hz, 0.5 hr/axis) IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Shock	With SSD: NA-G half-sin 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Operating Temperature	0°C to 35°C with 0.6 m/s airflow IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMC	<ul style="list-style-type: none"> <li>• FCC Class B</li> <li>• CE</li> <li>• ICES-003</li> <li>• UKCA</li> <li>• Industrial EMC Compliance</li> <li>- EN 61000-4-2: 2009</li> <li>- EN IEC 61000-4-3: 2020</li> <li>- EN 61000-4-4: 2012</li> <li>- EN 61000-4-5: 2014 +A1: 2017</li> <li>- EN 61000-4-6: 2014</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• UL Safety: UL62368-1, 3rd Ed., (cULus)</li> <li>• Test procedure: CB Scheme</li> <li>• Standard: IEC 62368-1:2018</li> </ul>

## Available Models

Model No.	Description
LLM-3U-AM5	3U Edge AI Rackmount Server with AMD Ryzen™ 9000/8000/7000 Processors and B650 Chipset

## Optional Accessories

Model No.	Description
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00003	Power Cord, Japanese Type, 180cm
1-TPCD00005	Power Cord, 3-pin US Type, 180cm

## Packing List

1x LLM-3U-AM5 Edge AI Rackmount Server  
1x CPU Fan Cooler  
1x Power Cord