Axial AX300 Series

Intel® Xeon® (5th Gen) Rackmount Edge Server

The Axial AX300 is a highly-configurable edge computing powerhouse engineered for complex workloads in demanding IT/OT environments. Its flexibility, security, and remote management enable virtualization, AI, data analytics, and large language model processing.

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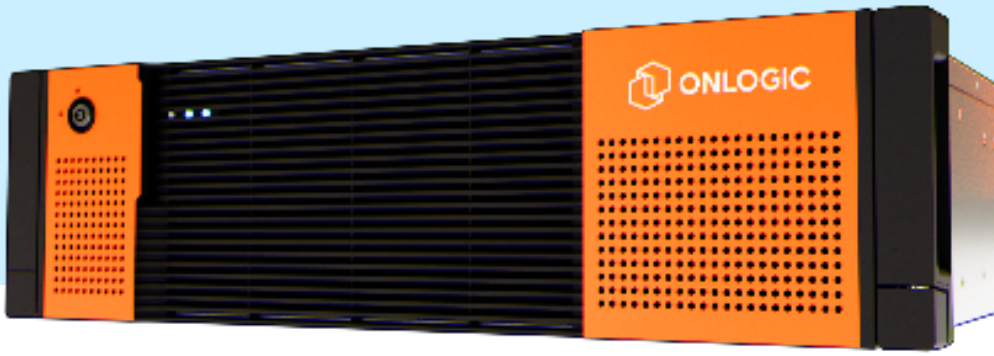


Scalable Performance

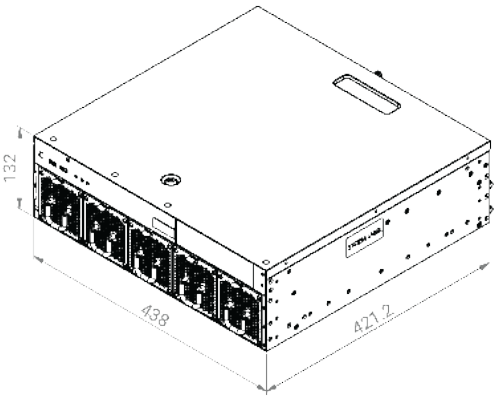
With available dual socket Intel Xeon Scalable processing and 7 PCIe slots, Axial AX300 lets you customize the performance and capabilities of the system to match your unique application, from AI model training to advanced machine vision.

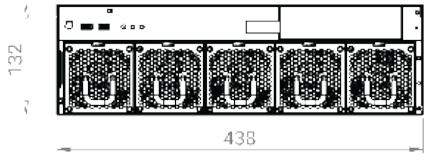
Built-In Security

The AX300 helps protect your valuable on-site data with built-in security features, including a locking front bezel, rear port-blocking attachment, lid lock with intrusion detection, and available locking drive bays.

Optimized for the Edge

Maximize uptime at the edge with onboard dust filtration, hot-swappable fans, and advanced thermal management. The system's shallow depth and versatile mounting options provide impressive installation flexibility.





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System

CPU	PCIe Expansion	Storage Expansion	Model
1x CPU	Up to 2x Dual Slot GPUs 1x Network Adapter	SATA	AX301
		NVMe	AX302
2x CPUs	Up to 2x Dual Slot GPUs 2x Network Adapters	SATA	AX303
		NVMe	AX304
	Up to 7x Single Slot GPUs/PCIe Adapters	SATA	AX305
		NVMe	AX306
	Up to 4x Dual Slot GPUs/PCIe Adapters	SATA	AX307
		NVMe	AX308
Additional configuration options available, contact our team to learn more.			

Processor Generation	5th Gen Intel Xeon Scalable Processors Socket: 1+1 Socket E (LGA 4677) For a complete list of supported processors, refer to Section 1.4 - Product Specifications in the Axial AX300 - Edge Server Product Manual.
Memory	Support up to 16x DDR5 RDIMM from 16 to 64 GB in EC8 Maximum operational speed: 5600 MT/s on 5th Gen Intel Xeon Scalable Processors
Expansion and Storage	1x M.2 2280/221100 M-key (PCIe Gen 5 x4) 6x PCIe Gen 5 x16 Full Height, Full Length Slot 1x PCIe Gen 5 x8 (x16 Compatible) Slot 2x MCIO (PCIe5.0 x8) [CPU0] 3x Oculink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] Up to 13 SATA 6Gb/s, support RAID 0/1/5/10 1x Serial DB9 (COM) RAID 0/1/5/10 Support through Intel VROC*

Front I/O

Power Button	1x Power button & LED (white)
LED	1x ID Button / LED (blue) 1x Error LED (orange)
USB	2x USB 3.2 Gen 1 Type A

Rear I/O

USB	2x USB 2.0 Type A
Ethernet	2x 10 GbE Intel X710-AT2 1x 1 GbE Dedicated Management (BMC/IPMI)
Display	1x VGA (BMC Video Output)

Power Input

Source	100~240 VAC
Wattage	Up to 2 PSUs with PMBUS monitoring, 120~220 VAC, 50-60Hz input Delta 1000W/2400W CRPS 80 Plus Titanium AC Power Supply Fwd Airflow (110V/220V)

* VROC Standard only supports RAID 0/1/10

Expansion & Options

Storage options	**All AX300 Series Servers** 1x 2.5" SATA Rear Drive Bay **AX301, AX303, AX305, AX307** Support for up to 8x 2.5" 7mm SATA Drives in front bay **AX302, AX304, AX306, AX308** Support for up to 4x 2.5" 15mm NVMe Drives in front bay Bays support RAID 0/1/5/10 with Intel VROC
Security Features	Intel PTT (Native), Optional TPM 2.0 module, Secure Boot, Chassis Intrusion Detection, Security Bezel

Mechanical & Weight

Dimensions (WxHxD)	438.0 x 132.0 x 421.2mm (17.3 x 5.2 x 16.6") without Security Bezel 482.6 x 132.0 x 455.0mm (19.0 x 5.2 x 17.9") with Security Bezel & Handles
Case Type	Actively cooled 3U rackmount chassis
Case Material	Steel
Weight	System Maximum: 24.0 kg (52.9 lbs) Shipping Maximum: 35.0 kg (77.2 lbs)
Mounting Options	Rack Mount 17" (420-600mm) slide rail Rack Mount 23" (564-850mm) slide rail with Optional Cable Management Arm 2-post 19" EIA Mounting Bracket Wall Mount Tower Stand
Physical Security	Removable front security bezel
Expected Life Cycle	5 yrs
Hardware Type	Edge Server

Environment & Regulatory

Operating Temperature	5~40°C (ASHRAE A3 temperature)
Certifications	FCC 47 CFR Part 15 (Class A) CAN ICES-003(A) / NMB-003(A) (Class A) CISPR 32 / 35 (EN 55032 / EN 55035 Class A) FCC/CE UL/EN/IEC 62368-1 (UL E490677) NRTL + CB
Countries of Use	**Available countries:** Americas: • Canada, United States Europe: • Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Liechtenstein, Luxembourg, Malta, Norway, The Netherlands, United Kingdom, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden **Available countries upon request:** • Australia, China, Japan, New Zealand **Other countries may be available, please call**

Other

Warranty	2 Year Limited Warranty on parts and services 3 and 5 year extensions optional

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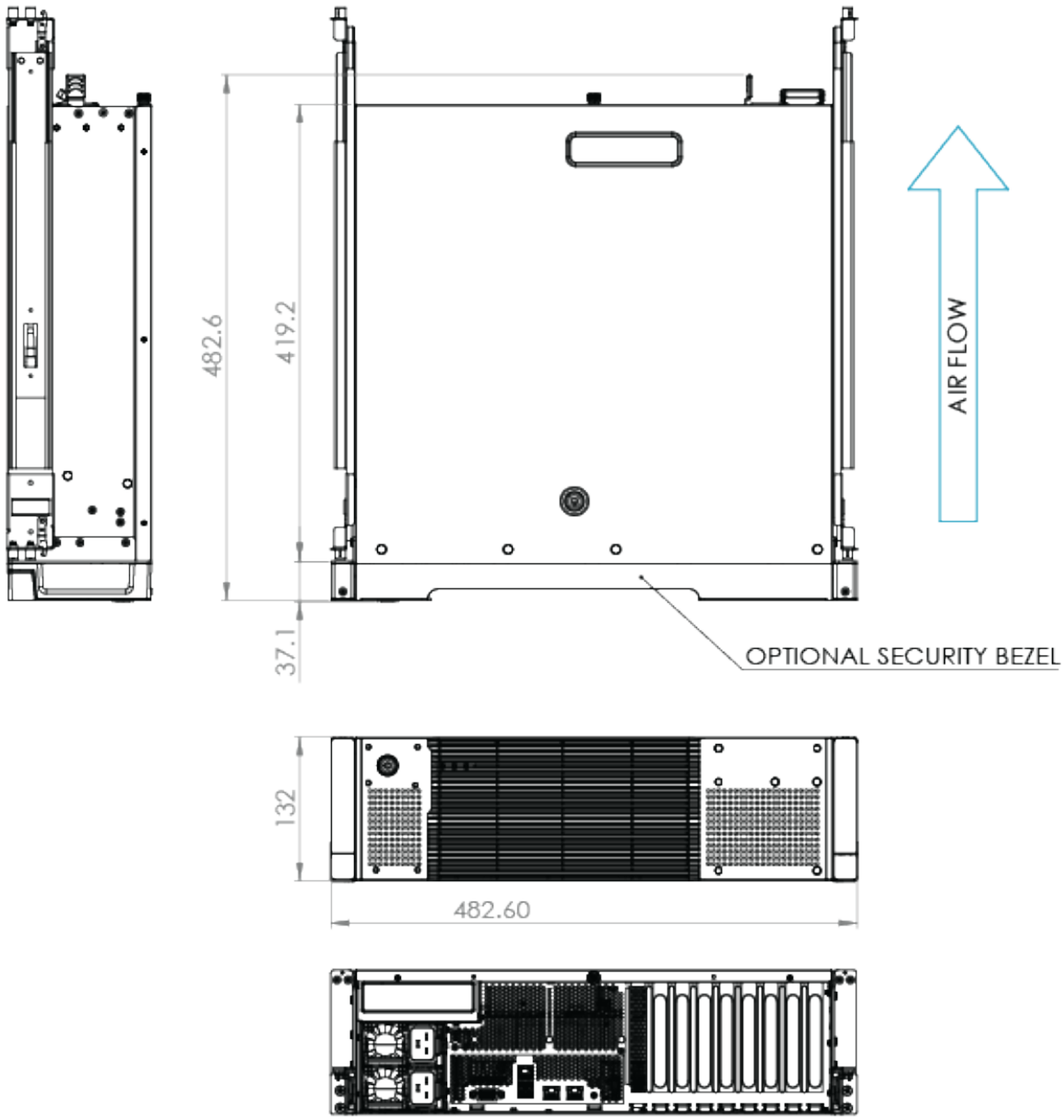
AX300 Dimensional Drawings

Rack Mounting

all measurements in mm



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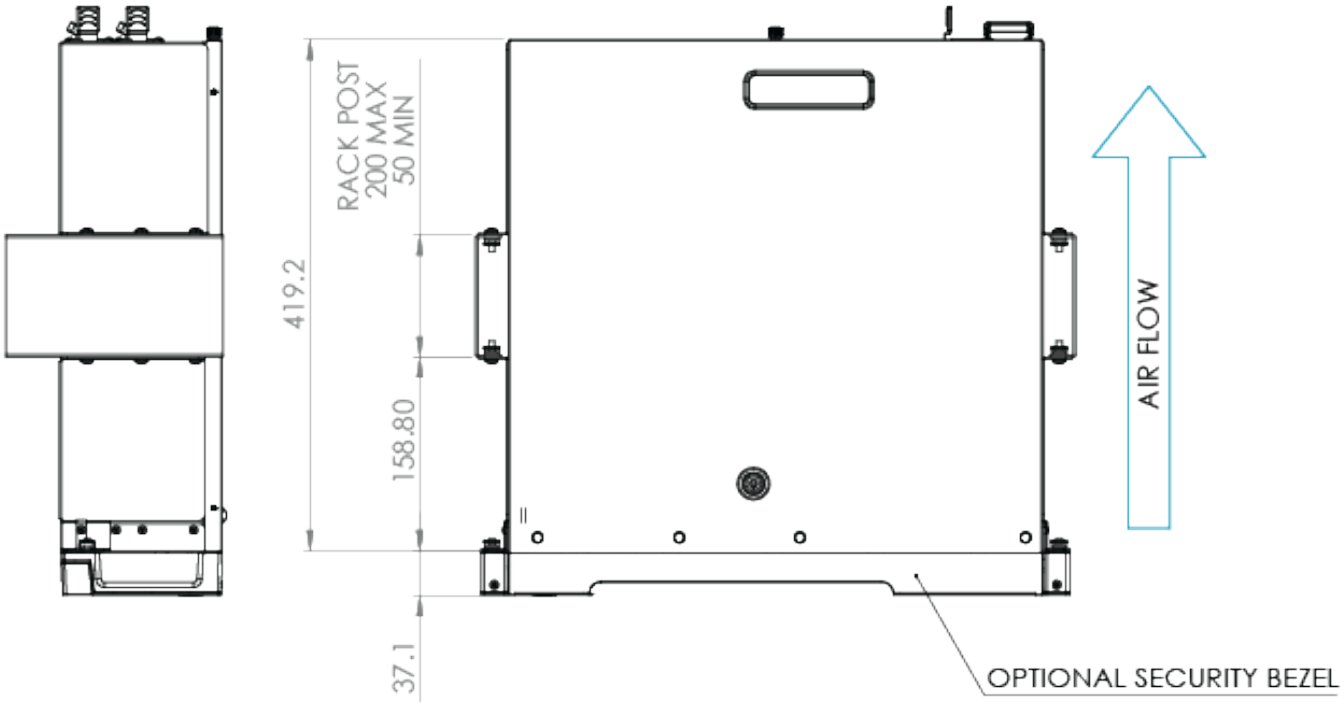
AX300 Dimensional Drawings

Rack Post Mounting

all measurements in mm



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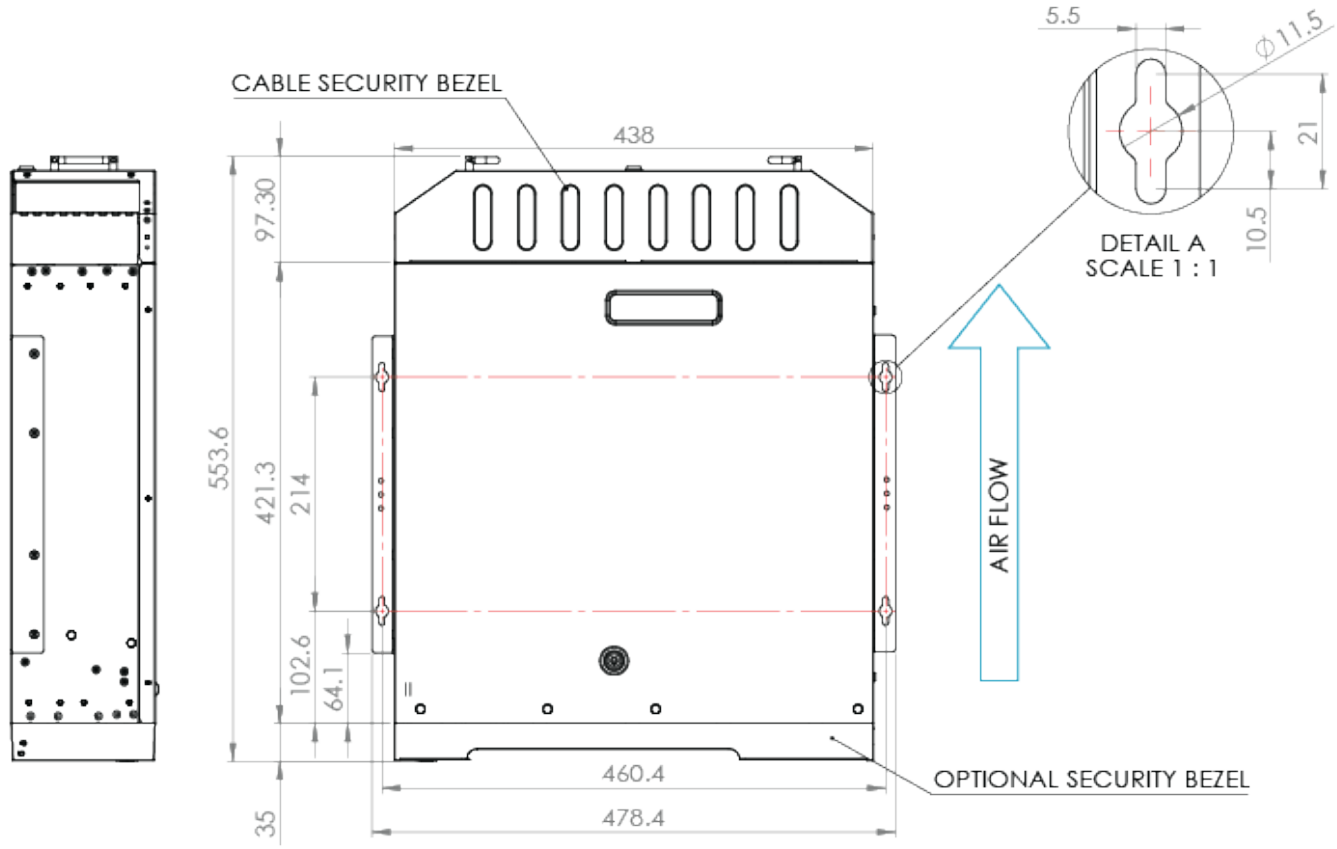
AX300 Dimensional Drawings

Wall Mounting

all measurements in mm



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