

# IoT/Embedded

X13 Intel® Core® i9/i7/i5/i3 (Alder Lake)  
Compact 1U Embedded System

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MODEL	SYS-111AD-HN2	SYS-E300-13AD	SYS-E302-13AD
Processor Support	13th/12th Gen Core i9/i7/i5/i3 Processor Single Socket LGA-1700 supported TDP up to 80W	13th/12th Gen Intel Core i9/Core i7/Core i5/Core i3/ Pentium/Celeron Processor Single Socket FCLGA1700 supported TDP up to 65W	Single Socket supported TDP up to 45W
Key Applications	<ul style="list-style-type: none"> <li>Compact 1U Embedded System</li> <li>Digital Signage, POS</li> <li>Office Server, DVR/NVR</li> <li>Video Surveillance</li> </ul>	<ul style="list-style-type: none"> <li>Digital Signage</li> <li>Medical Applications</li> <li>Surveillance Security Server</li> <li>AI Inference and Machine Learning</li> </ul>	<ul style="list-style-type: none"> <li>IoT Application</li> <li>Enhanced Graphics&amp;AI</li> <li>Artificial Intelligence</li> <li>Retail</li> <li>Healthcare</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>13th/12th Generation Intel® Core™ i9/i7/i5/i3/ Pentium/Celeron Processor (LGA-1700), up to 80W</li> <li>4x DIMMs; Up to 128GB Unbuffered ECC/non-ECC UDIMM</li> <li>1x PCIe Gen5 x16 HHHL slot</li> <li>2 Hot-swap 2.5" SATA3 drive bays</li> <li>4x 40x28mm 4-pin PWM fans</li> <li>200W Low Noise AC-DC power supply with PFC</li> <li>Rear-access I/O: 2x 2.5GBase-T, 1x Dedicated IPMI, 4x USB3.2, 1x VGA, 1x DVI-D, 2x DP, 1x HDMI 2.0b</li> </ul>	<ul style="list-style-type: none"> <li>13th/12th Generation Intel® Core™ i9/i7/i5/i3/ Pentium/Celeron Processor (LGA-1700)</li> <li>Intel® Q670E</li> <li>2x DDR4-3200MHz SO-DIMM max 64GB</li> <li>Support 1x PCIe 5.0 x16 Slot (Optional)</li> <li>Support M.2 M/E-Key</li> <li>AMT vPro Supported</li> <li>Support up to 2x 2.5" drive bays (Optional)</li> <li>Quad Independent Display by 2x HDMI and 2x DP</li> </ul>	<ul style="list-style-type: none"> <li>Intel® Alder Lake-PS, 13th/12th Gen Core Cel/i3/i5/ i7 Processor LGA1700</li> <li>Windows 10 EoT Enterprise 2021 LTSC and long- term Linux kernel</li> <li>Up to DDR5 4800MHz 64GB SO-DIMM</li> <li>1x SATA 2.5" Storage, 1x M.2 M-Key (2280) support NVMe</li> <li>Fanless Cooling</li> <li>Operating Temperature : 0°C-45°C</li> <li>150W 12V Lockable DC Power Adapter</li> </ul>
Serverboard	SUPER● X13SAZ-F	SUPER● X13SAV-LVDS	SUPER● X13SAV-PS
Chipset	Intel® R680E	Intel® Q670E	Intel® SoC
System Memory (Max.)	4 DIMM slots UP to 128GB: UDIMM	2 DIMM slots UP to 64GB: DDR4 SO-DIMM	
Expansion Slots	x PCIe 5.0 x 16 HHHL	x PCIe 5.0 x 16 LP	M.2 M-Key 2280/ B-Key 3052/ E-Key 2230
Onboard Storage Controller	Intel® SATA	Intel® SATA	Intel® SATA
Connectivity	2x 2.5GbE RJ45 port(s) with Intel® Ethernet Controller I225-LM	1x 1GbE RJ45 port(s) with Intel® Ethernet Controller i210-AT 1x 2.5GbE RJ45 port(s) with Intel® Ethernet Controller I225-LM	2x 2.5GbE RJ45 port(s) with Intel® Ethernet Controller I225-LM
VGA/Audio	1 onboard VGA port	None	None
Management	IPMI 2.0	SuperDoctor® 5; Watch Dog	SUM; SuperDoctor® 5; Watch Dog
Drive Bays	2x 2.5" hot-swap SATA/PCIe drive bays;	1x 2.5" SATA drive bays;	1x 2.5" SATA/PCIe drive bays;
Peripheral Bays	None	None	None
Power Supply	1U 200W Multi-output 80Plus Gold Power Supply		Lockable 12V DC 150W power adapter
Cooling System	4 heavy duty fan(s)	2 heavy duty fan(s)	heavy duty fan(s)
Form Factor	1U Rackmount Enclosure: 437 x 43 x 287mm (17.2" x 1.7" x 11.3") Package: 645.16 x 154.94 x 502.92mm (25.4" x 6.1" x 19.8")	Mini-1U Rackmount Enclosure: 254 x 43 x 226mm (10" x 1.7" x 8.9") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")	Compact Rackmount Enclosure: 295 x 76 x 206mm (11.6" x 3" x 8.1") Package: 418 x 305 x 194mm (16.45" x 12" x 7.6")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details