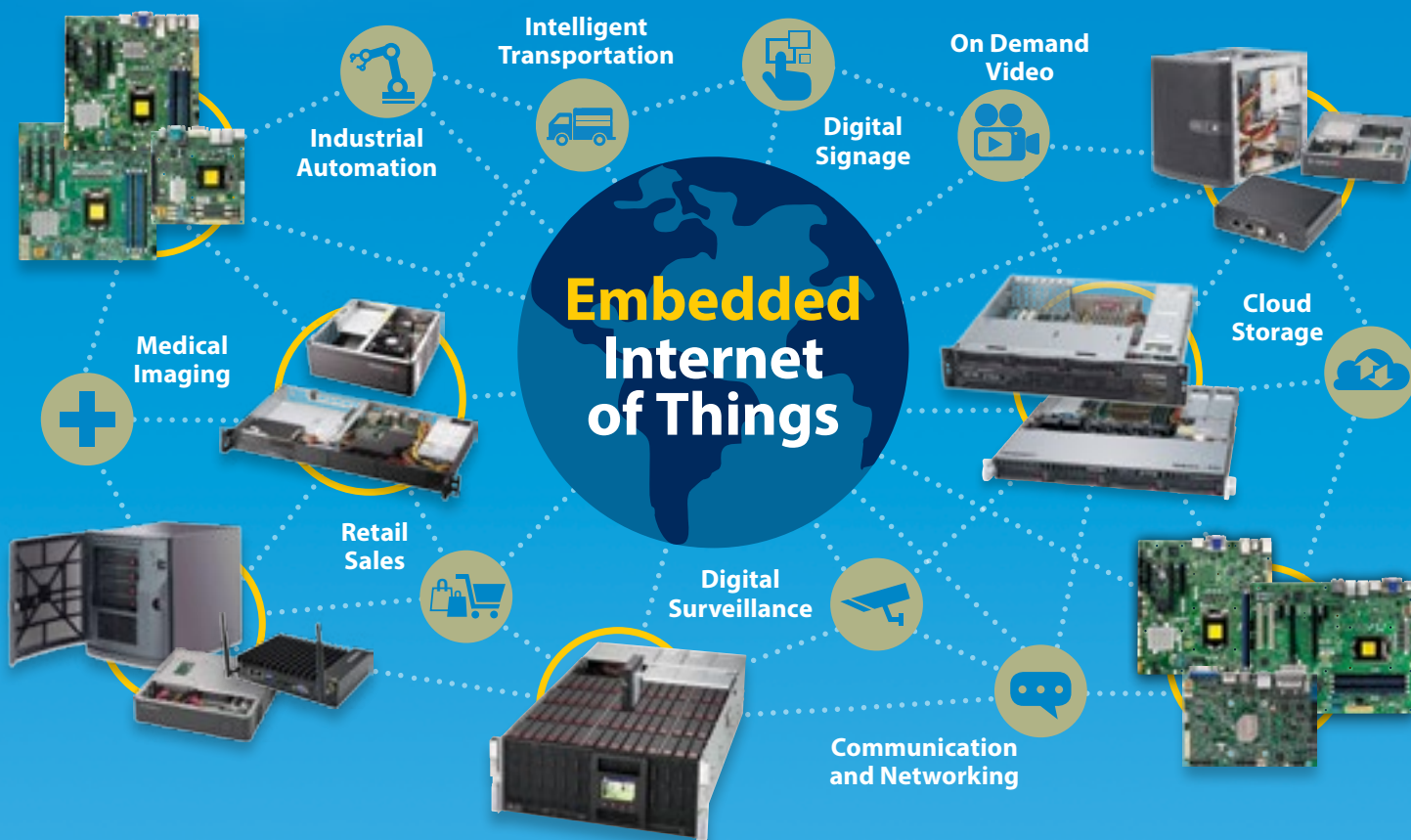




Embedded/IoT Solutions

Connecting the Intelligent World from Devices to the Cloud

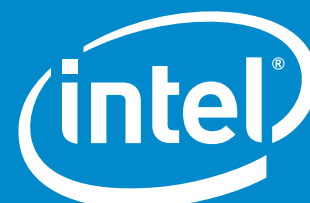
Long Life Cycle · High-Efficiency · Compact Form Factor · High Performance · Global Services



Embedded Building Block Solutions



Supermicro Next Generation Solutions based on Intel® Processors



Fueling Innovation with Products and Technology

Medical Imaging Scanners



Medical imaging is the ability to create visual representation of the interior organs and functions of the human body for clinical analysis. High performance image processing is critical for medical scanners and instrumentation such as CT, MRI, PET, OCT & Ultrasound.

Supermicro offers high-end multi-core Intel® Xeon® Dual Processor with AVX technology and high memory capacity Servers for compute intensive workloads for medical imaging.



Industrial Automation



Modern factories uses several forms of control systems for operating mechanical sensors, switches, relays, conveyors, hydraulics, pneumatics and electrical devices. General purpose process control servers and IoT Gateways are increasingly being deployed to run industrial and business application software to help improve operations, simplify device management, and reduce maintenance costs.

Supermicro offers a wide variety of building block and IP solutions for factory and building automation applications that can combine the factory floor to supply chain and business processes.



Communication Infrastructure



Networking devices support any number of applications and services linking multiple devices or access to the net and provide the ability to securely share server, storage applications and functions.

Software Driven Networks (SDN), Network Functions Virtualization (NFV) (also known as Virtual Network Function (VNF)) offers new ways to design, deploy and manage data communication and networking services.

Network security servers monitor and control incoming and outgoing network traffic based on predetermined security rules. Intel® Xeon® and Atom™ CPU provide cryptography engines for faster encryption and decryption of messages or information for authorized and intended use.

Supermicro offers high-performance and small form factor solutions with front I/O and extreme expansion slots for Data Center Edge devices, Management control, Network and Security Devices.



Electronic Test Equipment



Test equipment is used to generate signals and capture responses from semiconductor devices and electrical circuits, with the ability to diagnose faults and/or guarantee the proper operation of the electronic devices. Electronic test equipment ranges from the very simple to extremely complex and sophisticated instrumentation that are used during semiconductor manufacturing, inspection, test and debug.

Supermicro provides building block solutions that offer semiconductor test equipment manufacturers the flexibility and life cycle quality to seamlessly to integrate these signals and responses in to their overall solutions.



Intelligent Transportation



Transport control systems provide innovative and advanced applications and services relating to different modes of transport and traffic management. These systems enable both transport authorities and commuters to be better informed, and make smarter and coordinated use of various public transport systems.

Intelligent transport systems include management systems, public events, traffic conditions, weather information and predictive techniques for devices such as car navigation; traffic signal control systems; freight container management and many others.

Supermicro provides a full range of IPC Rackmount solutions that deliver high-performance features including storage solutions that can readily handle acquisition and analysis of complex data.



Addressing Market needs with Products and Technology

Digital Signage



Digital signage provides projection and display technologies such as digital images, video, streaming media, etc. found in public arenas such as stadiums, museums, hotels and restaurants, corporate buildings, airports, train and bus stations for marketing, advertising or informational purposes. Sophisticated and advanced solutions provide streaming video or multimedia content over high-speed connection services including remote management, large multiple-displays and highly interactive displays in public places for informational or advertising purposes.

Supermicro offers a variety of small foot print server products with remote management (AMT VPRO or IPMI 2.0) and multiple display capability that are ideal for video processing, media streaming and management.



Retail Kiosk, Point-of Sale, Banking ATM



Retail Kiosk, Point-of Sale, and Banking ATM are interactive computer terminals that feature embedded low-power, small form factor hardware and software that is self-contained within the machine. They provides access to information and applications for commerce, retail transaction, entertainment, information and education.

Supermicro provides a range of products that can enhance the user experience for retails Kiosk, POS and ATM machines with compact, and lower power embedded servers.



Digital Security & Surveillance



Advanced video surveillance systems are used for monitoring and observing an area. These systems include Analog or Digital cameras and are often connected to a recording and Storage Devices over IP networks.

Commonly used for automatic number plate recognition or speed cameras to monitor traffic, security CCTV systems; parking structures, and information systems; Video-based security and surveillance products used for physical security, public safety, loss prevention, business Intelligence, and other video analytics based applications, hardware accelerated Video processing, HD graphics

quality, Visual Computing Applications for media & image processing, video editing, playback & transcoding, digital & 3D content creation, and visualization.

Video Surveillance as a Service refers to hosted cloud-based video surveillance. The service typically includes video recording, storage, remote viewing, management alerts, cyber security and more. Cloud technology advances and greater bandwidth availability are making VSaaS – also called cloud video surveillance – increasingly attractive.

Supermicro server products can integrate video surveillance with IP Camera, Storage, Management, HD Video processing and analytics. For Cloud based solutions Supermicro provides a full range of data center storage and server products.



Cloud, Warm and Cold Storage



Cloud data storage is a service model in which information is remotely stored, managed, maintained and made accessible to users over the internet. Warm and cold data is data that is accessed less frequently and is usually stored on lower performing and less expensive storage environments either on premises or in the cloud.

Supermicro storage appliances offer new ways to optimize cloud infrastructure through higher density, low power and better TCO for reliable and quick access to capacity storage.



Smart Cities



Smart Cities are a vision of new urban development that integrate multiple city resources and services using information technology and Internet of Things (IoT) solutions. The goal is to build a highly efficient system that integrates all local services such as public transportation, schools, libraries, malls, utilities, law enforcement hospitals and other community services.

Information and communication technology (ICT) is used to enhance community resources and services, better response time, better and more efficient utilization of resources, reduced cost, better communication between citizens and government.

Supermicro provides comprehensive and innovative embedded/IoT building block solutions and servers for a wide variety of smart city applications, including life-cycle management.

Supermicro Motherboards - Chassis - Server - Building Block Solutions

Intel® Xeon® D-1500 v5 (Broadwell-DE) 16 cores, 25-65W, 1.7-2.36GHz

X10SDV-16C-TLN4F
X10SDV-16C-TLN4F+
X10SD-16C+TLN4F
X10SDV-7TP8F
X10SDV-4C+TP4F



Intel® Xeon® E5-2600 v5 (Broadwell) 22 cores, 165W, 3.5GHz

X10DRL-i
X10DAi/C



Intel® Xeon® E3-1200 v6/v5 (Kaby Lake/SkyLake) 4 cores, 80W, 3.7GHz

X11SSH-F
X11SSM/-F



Intel® Xeon® E3-1500 v5 (Skylake-H) 4 cores, 45-65W, 2.8-3.9GHz, GT4e

X11SSV-M4F
X11SSV-M4
X11SSH-GF-1585
X11SSH-GTF-1585



Intel® Atom™ E3900 (Apollo Lake-I) 2-4 cores, 6.5-9.5W, HD Graphics, 1.8GHz

A2SAV/-L
A2SAN-H/E/L



Intel® Pentium N4200 (Apollo Lake) 4 cores, 6W, HD Graphics, 1.1-2.5GHz

X11SAA
X11SAN



Intel® Atom™ C3000 (Denverton) 2-16 cores, 8.5-31W

A2SDi-2C-HLN4F



Intel® Core i7 6th & 7th Gen (Skylake-S & KabyLake-S) 4 cores, 35-65W, 4.6GHz

X11SSQ/-L
X11SSV-Q
X11SSZ-Q/QF



Compact

SCE300	SC101F	SC101i	SC101iF	SC101S
10" x 1.7" x 8.9" (254 x 43 x 226mm)	7.6" x 1.7" x 8.9" (193 x 43 x 226mm)	7.68" x 2.68" x 7.68" (195 x 68 x 195 mm)	<i>Dual Fan</i> 7.68" x 2.68" x 7.68" (195 x 68 x 195 mm)	7.68" x 1.75" x 7.68" (195 x 44.45 x 195mm)

Fanless

SCE101	SCE101-IA
7.68" x 1.73" x 5.94" (195 x 44 x 151mm)	7.48" x 3.01" x 5.04" (190 x 76.5 x 128mm)

Rack & Tower

SC721	SC515-R407	SC505	SC504
8.27" x 9.45" x 11" (210.06 x 240.03 x 279.4mm)	17.2" x 1.7" x 16.9" (437 x 43 x 429mm)	17.2" x 1.7" x 9.8" (437 x 43 x 249mm)	17.2" x 1.7" x 9.8" (437 x 43 x 249mm)

Intel® Atom™, Pentium (Apollo Lake) Low Power Processor Fanless System Solutions

SYS-E100-9AP



Wide Temperature

Fanless Embedded System

4C | 9.5W | 8G

7.68" x 5.94" x 1.73"

(195 x 151 x 44mm)

- 2x GbE LAN
- 4x COM (2x RS-232, 2x RS-232/422/485)
- Wide operating temp -20°-60°C for harsh environments

SYS-E100-9APP



X11SAN

Fanless Embedded System

4C | 6W | 8G

7.68" x 5.94" x 1.73"

(195 x 151 x 44mm)

- 1x USB 3.1 Type C, 2x USB 3.0, 4x USB 2.0
- 2x GbE LAN, M.2 2280 with B-key
- 4x COM (2x RS-232, 2x RS-232/422/485)

SYS-E100-9AP-IA



A2SAN-E

Wide Temperature

Fanless Embedded System

4C | 9.5W | 8G

7.48" x 3.01" x 5.04"

(190 x 76.5 x 128mm)

- Support 2.5" HDD/SDD
- 1x Mini-PCI-E expansion I/O
- Wide operating temp -20°C-60°C
- 9-36V power input
- DIN Rail mounting support

SYS-E200-9AP



A2SAV

Compact Box System

4C | 6W | 8G

7.68" x 7.68" x 1.7"

(195 x 195 x 43mm)

- M.2 2242, 2280, with M-key
- (full size) mSATA support
- Dual display for HDMI, Display Port, VGA
- 2x GbE LAN

SYS-5029AP-TN2



A2SAV

Compact Mini Tower

4C | 6W | 8G

8.27" x 11" x 9.45"

(210 x 280 x 240mm)

- Up to 4 Hot-Swap 3.5" SATA3 HDD, 1 internal 2.5" fixed HDD and 1 M.2 (M key 2242/80 PCI-E 2.0x2)
- 2x Gigabit LAN ports
- Embedded long life
- Quiet Operation

Intel® Atom™ C3000 (Denverton) - High Density, Low Power Solutions



SYS-5029A-2TN4



A2SDi-2C-HLN4F

Compact Mini Tower

2C | 9W | 64G

8.27" x 11" x 9.45" (210 x 280 x 240mm)

- Denverton Atom 2-Core SoC C3338 at 1.5-2.2GHz, 9 watts, Socket FCBGA 1310
- Up to 64GB RDIMM or 32GB ECC/NON ECC UDIMM, DDR4-1866MHz, in 2 DIMM slots
- 1x PCI-E.3.0 x2 (in x4 open ended slot)
- 1 USB 3.0 type A, 4 USB 2.0 (2 via rear, 2 via headers), 1 Port SuperDOM, Quad 1G Lan, VGA from AST2400
- IPMI via RJ45
- TPM Header
- 4 Hot Swap 3.5" SATA HDD, 2x 2.5" Internal SATA HDD, 1x Slim Optical Drive (Shared with 1x 2.5" HDD Bay)



A2, X11 Low Power Motherboard Solutions

Pentium Apollo Lake

Atom™ Apollo Lake-I

Atom™ Denverton

X11SAN
A2SAN-H/-E/-L

X11SAA

A2SAV/-L

A2SDi-2C-HLN4F



X11SAN: N4200, 2.5GHz (Burst), 4 Core, 6W
A2SAN-H/-E: E3940, 1.8GHz (Burst), 4 Core, 9.5W
A2SAN-L: E3930, 1.8GHz (Burst), 2 Core, 6.5W

N4200, 4 Core, 6W

E3940, 4 Core, 9.5W

C3338, 2 Core, 9W

Intel® Atom™ Rangeley and Avoton Embedded Server Appliances



Communication



Atom™ C2358
2-Core

5018A-LTN4 (1U - 9.8")

- Intel® Atom™ C2358 processor-based SoC, FCBGA 1283 2 cores, 1.7-2.0GHz, 7W (Rangeley)
- Up to 2 DIMMs, 16GB of DDR3 ECC SODIMM 1333MHz
- 2x 3.5" or optional 4x 2.5" internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 2x USB3.0, 2x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Gold Level Low-Noise Power Supply



Atom™ C2550
4-Core

SYS-5018A-MLTN4 (1U - 12.5")

- Intel® Atom™ C2550 processor-based SoC FCBGA 1283, 4 cores, 2.4-2.6GHz, 14W (Avoton)
- Up to 4 DIMMs, 64 GB of DDR3 ECC or non ECC UDIMM up to 1600MHz
- 2x 3.5" or optional 4x 2.5" internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Low-Noise Power Supply



Atom™ C2550
4-Core

SYS-5018A-MLHN4 (1U - 19.8")

- Intel® Atom™ C2550 processor-based SoC FCBGA 1283, 4 cores, 2.4-2.6GHz 14W (Avoton)
- Up to 4 DIMMs, 64 GB of DDR3 ECC or non ECC UDIMM up to 1600MHz
- 4x 3.5" hot-swap and SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Low-Noise Power Supply



Cold Storage



Web Hosting



Atom™ C2758
8-Core

SYS-5018A-FTN4 (1U Front I/O - 9.8")

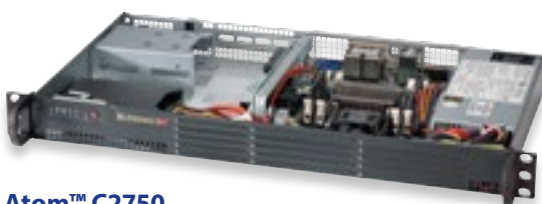
- Intel® Atom™ C2758 processor-based SoC, FCBGA 1283 8 cores, 2.4GHz, 20W (Rangeley)
- Long Life Cycle Embedded Solution
- Support Intel® QuickAssist Technology
- Up to 4 DIMMs, 64 GB of DDR3 ECC SODIMM up to 1600MHz
- 2x 3.5" or optional 4x 2.5" internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB3.0, 2x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Gold Level Low-Noise Power Supply



SMB Servers / Storage



Networking / Communications



Atom™ C2750
8-Core

SYS-5018A-TN4 (1U - 9.8")

- Intel® Atom™ C2750 processor-based SoC, FCBGA 1283 8 cores, 2.4-2.6GHz, 20W (Avoton)
- Up to 4 DIMMs, 64GB of DDR3 ECC SODIMM up to 1600MHz
- 2x 3.5" or optional 4x 2.5" internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB3.0, 2x USB2.0, VGA, COM
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Gold Level Low-Noise Power Supply



Control/Head Node

High Core Atom™ Rangeley Networking and Security Server Appliances



Atom™ C2758

SYS-5018A-TN7B (1U - 9.8")

- Intel® Atom™ C2758 processor-based SoC, FCBGA 1283, 20W 8-Core, 2.4GHz
- 7x GbE LAN including 6 ports LAN bypass (SW programmable) ports w/ SoC I354, I350-AM2 and I210-AT
- 1x 3.5" Fixed drive bay or 4x 2.5" drive bays w/ optional bracket, 1x mSATA slot
- 1x PCI-E 2.0 x4 (in x8) slot / IPMI 2.0 with shared LAN
- Up to 64GB DDR3 1600MHz ECC or non-ECC UDIMM
- 2x 4cm counter-rotating PWM fans; Supports up to 3x system fans
- 200W Multi-output power supply



Atom™ C2758

SYS-5018A-MHN4 (1U - 19.8")

- Intel® Atom™ C2758 processor-based SoC FCBGA 1283, 8 cores, 2.4GHz, 20W (Rangeley)
- Long Life Cycle Embedded Solution / Support Intel® QuickAssist Technology
- Up to 4 DIMMs, 64 GB of DDR3 ECC or non ECC UDIMM up to 1600MHz
- 4x 3.5" hot-swap SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB2.0, VGA, COM
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Low-Noise Power Supply



Security Appliance



Networking/Communications

High Performance Single Processor - Short-Depth WIO/GPU Server



Xeon® E5-2600 v4/v3

SYS-1018R-WR (1U - 16.9")

- Intel® Broadwell-EP LGA2011 Socket R3 E5-2600 v4/v3 family, C612 Express chipset
- Up to 8x ECC/Non-ECC DDR4 R/LR DIMM 1333MHz/1600MHz/2400MHz (2DPC); Up to 256GB RDIMM, 512GB LRDIMM
- 2 x16 PCI-E 3.0 (FHFL), 1 x8 PCI-E3.0 (LP) slot
- 2x GbE port, 1x dedicated Management port
- 1U Compact size less than 17" depth
- Double-width GPU + 1x low-profile card
- Optimized cooling design
- Redundant power supply w/ BBP® option



Medical Applications

Low Power Intel® Core™ i7/i5 Server Appliance



Core® i7/i5

SYS-5017P-TLN4F/TF (1U - 9.8")

- Intel® Core® i7-3612QE or i5-3610ME Mobile ECC processor
- Intel® QM77 Express Chipset
- 2x 3.5" or optional 4x 2.5" internal SATA2 Drive Bays
- 1x PCI-E 3.0 x16 slot
- Up to 16GB 1600/1333MHz DDR3 ECC SO-DIMMs
- Intel® 82574L; 2x or 4x GbE LAN ports
- IPMI 2.0 on Dedicated LAN port
- 200W Low-noise Power Supply w/ PFC
- Disk-on-module (DOM) power connector



Control/Head Node

Short Depth IPC Server Solutions



Core® i7/i5

SYS-1019S-M2 (1U 16.9")

- Single socket H4 (LGA 1151) supports Intel® 7th/6th Gen. Core i7/i5/i3 series, Intel® Celeron® and Intel® Pentium® processors
- Intel® Q170 Express chipset, 2x 2.5" Fixed drive bays
- Up to 64GB Unbuffered Non-ECC, UDIMM DDR4 2133MHz; 4 DIMM slots
- 1x PCI-E 3.0 x16 slot for Full Height Full Length Card
- 1x GbE LAN w/ Intel® i210-AT, 1x GbE LAN w/ Intel® PHY i219LM
- Integrated IPMI 2.0 and KVM with Dedicated LAN, AMT/vPro supported
- 2x DP, 1 DVI-I, Intel® HD Graphics, with 3x independent displays, VGA from BMC AST2400
- 400W Platinum Level Power Supply
- WxDxH: 17.2" x 16.9" x 1.7" (437x429x43mm)



Industrial Automation & Control

Intel® Xeon® Processor D mini-ITX Product Family

The high-density hyper-scale Supermicro X10SDV motherboards provide scalable performance when paired the Intel® Xeon® processor D product family. Based on Intel's 14nm process technology, these processors couple lower power consumption with the performance of up to 16 cores. The processor family enables new options for infrastructure optimization, bringing the performance and advanced Intelligence of Intel® Xeon® processors into dense, lower-power SoCs. These powerful SoCs include improved cache sizes and support up to 128G DDR4 ECC Registered memory; and built-in 1GbE and 10GbE Network Controllers.



SYS-5018D-FN4T (8 cores/45W)

- Front I/O, Space-efficient, compact design
- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W
- 1 PCI-E 3.0 x 16, 1x M.2 PCI-E 3.0x4 (Supports NVMe, AHCI) 2242/2280
- Up to 128GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- Dual 10GbE LAN and Intel® i350-AM2 dual port GbE LAN
- Less than 10" depth
- Best Performance per Watt
- Fast to build and deploy
- 2x 3.5" or 4x 2.5" SATA3 drive bays;
- 3.5" peripheral bay, 2.5" optional
- 200W Low-noise power supply w/ PFC



Web Hosting



SYS-E200-8D (6 cores/35W)

- Intel® Xeon processor D-1528, 6-Core, 1.9-2.5GHz, 35W
- Embedded Networking Applications
- Network Security Appliance
- FireWall Applications
- Virtualization Server
- Smallest Xeon® Server BOX
- 2x 1G + 2x 10G RJ45 LAN ports
- Best Performance per Watt
- 7 year life cycle
- IPMI 2.0 management with dedicated LAN



Cold Storage



Networking / Communications



SYS-5028D-TN4T (8 cores/45W)

- Network Security Appliance
- Compact Cloud Server
- High Performance NAS Servers
- Virtualization Server
- Business Critical Applications
- Web Server for Small and Medium Business
- Intel® Xeon® processor D-1540, Single socket FCBGA 1667; 8-Core, 45W
- 2x Gigabit + 2x 10G LAN ports
- Up to 4 Hot-Swap 3.5" SATA3 HDD and 2 internal 2.5" fixed HDD
- Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- 1x Low Profile PCI-E 3.0 x16 and 1x M.2 PCI-E 3.0 x4, M Key 2242/2280
- IPMI 2.0 + KVM with dedicated LAN



Security

X10 Intel® Xeon® D High Core, High Performance, Low Power Motherboard Solutions

X10SDV-16C+-TLN4F	X10SDV-12C-TLN4F	X10SDV-6C-TLN4F	X10SDV-6C+-TLN4F	X10SDV-4C+-TLN4F	X10SDV-TP8F	X10SDV-2C-TLN2F
D-1587, 16 Core, 65W	D-1557, 12 Core, 45W	D-1528, 6 Core, 35W	D-1528, 6 Core, 35W	D-1518, 4 Core, 35W	D-1518, 4 Core, 35W	D-1508, 2 Core, 25W
X10SDV-TLN4F	X10SDV-8C-TLN4F	X10SDV-F	X10SDV-8C+-LN2F	X10SDV-4C-TLN2F	X10SDV-7TP8F	X10SDV-4C-TLN2F
D-1541, 8 Core, 45W	D-1541, 8 Core, 45W	D-1541, 8 Core, 45W	D-1541, 8 Core, 45W	D-1521, 4 Core, 45W	D-1587, 16 Core, 65W	D-1521, 4 Core, 45W

Intel® Xeon® Processor D Flex-ITX Product Family 2/4/8/16-Core, Dual SFP+ 10 GbE LAN, Quad 1GbE, 22 Storage ports



SYS-1018D-FRN8T (16 cores/65W)

Xeon® D-1587 SoC Compact 1U Networking Appliance

- Xeon® SoC 16 Core, 32 Threads, 65W, 1.7~2.3GHz
- VT-d/x, TXT, AES-NI, Xeon® RAS, Built-in 10GbE
- Up to 128GB 2133MHz DDR4 RDIMM or 64GB 2133MHz ECC/Non-ECC UDIMM
- IPMI2.0 with KVM Dedicated port
- 6 LAN ports with Dual 10 GbE SFP+
- Applications: Compact Network Appliance Firewall, Software Defined WAN, On-premises Server
- W17.2" x D16.9" x H1.7" (437x429x43mm)



X10SDV-7TP8F
9" X 7.25" Flex ATX
Front I/O



Web Hosting



Firewall



Networking /
Communications



Security
Appliance



SYS-5018D-FN8T (4 cores/35W)

- Front I/O, Space-efficient, compact design
- Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4 core, 35W
- 2x 10 GbE SFP+
- 4x 1 GbE with I350-AM4, 2x 1 GbE with I210-AT
- Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- 1x PCI-E 3.0 x8 (Full Height and Half Length)
- 1x M.2 PCI-E 3.0 x4, M Key 2242/2280/22110 or SATA3, 1x Mini PCI-E with mSATA
- 1x 3.5" internal drive bays or 4x 2.5" fixed drive bays



SYS-5018D-LN4T (2 cores/25W)

- Cost effective, Space-efficient, compact design
- Intel® Xeon® processor D-1508, Single socket FCBGA 1667; 2 core, 25W
- 2x 10 GbE SFP+
- 2x 1 GbE with I210-AT
- Up to 128GB ECC RDIMM DDR4 1866MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- 1x PCI-E 3.0 x8 (Full Height and Half Length)
- 1x M.2 PCI-E 3.0 x4, M Key 2242/2280/22110 or SATA3, 1x Mini PCI-E with mSATA
- 1x 3.5" internal drive bays or 4x 2.5" fixed drive bays

X10 Intel® Xeon® D High Core, High Performance, Low Power Motherboard Solutions

X10SDV-7TP8F	X10SDV-TP8F	X10SDV-7TP4F	X10SDV-4C-7TP4F	X10SDV-2C-7TP4F	X10SDV-2C-TP8F	X10SDV-4C+-TP4F	X10SDV-2C-TP4F
D-1587, 16 Core, 65W	D-1518, 4 Core, 35W	D-1537, 8 Core, 35W	D-1518, 4 Core, 35W	D-1508, 2 Core, 25W	D-1508, 2 Core, 25W	D-1518, 4 Core, 35W	D-1508, 2 Core, 25W

Intel® Xeon® E3-1200 v6/v5 (Kaby Lake/Skylake) Single Processor System Solutions



Supermicro X11 Single Processor servers now support E3-1200 v6 (Kaby Lake) series processors. Server motherboards coupled with the long life C236 PCH Chipset provides up to 7 years of extended life for embedded applications. These systems deliver breakthrough performance, high performance graphics, stronger security and power efficiency over previous generation products. The systems are ideal for a wide range of IoT applications, including industrial control and automation, retail kiosks and medical devices.

X11 Intel® Xeon® E3-1200 v6/v5 Single Processor System Solutions

SYS-1019S-WR	SYS-5019S-MN4	SYS-5019S-MT	SYS-1019S-MC0T	SYS-5019S-WR
Short-Depth Multi-IO Server SC514-R407W X11SSW-F	Network-Centric SC813MFTQC-350CB X11SSH-LN4F	Entry Caching Appliance SC813MFTQC-350CB X11SSH-TF	Entry Level Storage SC113MFAC2-341CB X11SSH-CTF	Flexible I/O SC815TQC-R504WB X11SSW-F
SYS-5019S-L	SYS-5019S-ML	SYS-5019S-M	SYS-5019S-MR	
Entry Appliance SC510-203B X11SSL-F	Entry Appliance SC512F-350B1 X11SSH-F	Cloud, Hosting SC813MFTQC-350CB X11SSH-F	Cloud, Hosting SC813MFTQC-R407CB X11SSH-F	

X11 Intel® Xeon® E3-1200 v6/v5 Motherboards (C236 Chipset)

X11SSH-F X11SSH-LN4F	X11SSA-F X11SSi-LN4F	X11SSH-CTF X11SSH-TF	X11SSM X11SSM-F	X11SSW-F
VHD support 8 SATA3, 4 GbE ports	4 PCI 32-bit Slots 1U Networking Appliance	8 SAS3 + Dual 10G, SW RAID, Dual 10GBase-T	Cost optimized 4x PCI-E 3.0 Expansion Slots	WIO Form Factor 1U/3 AOC
QuickSynch Video & VHD Solutions	Appliance Solutions	10GbE and 10GbE+SAS3	Cost optimized 4x PCI-E 3.0 Expansion Slots	WIO Form Factor 1U/3 AOC

Intel® Xeon® E3-1500 v5 (Skylake-H) Single Processor System Solutions for Media Processing and Data Center Graphics

Supermicro X10 Single Processor servers with E3-1500 v5 (Skylake-H) series processors provide up to 26% more overall graphics performance than the previous-generation E3-1200 v4 processors. For dense and high-capacity media processing over the net, these systems can deliver up to 18 AVC streams or 8 HEVC streams at 1080p 30 frames per second (FPS), or 2 HEVC streams at 4K 30 FPS.



Workloads Enabling the Visual Experience

- High-performance & power efficient compute with integrated Intel® Iris™ Pro Graphics for graphics intensive applications
- Intel® Quick Sync video for hardware enhanced HD and UHD video transcoding
- Intel® Graphics Virtualization Technology for flexible, secure remote application delivery
- Real-time ultra high-definition (UHD/4K) video delivery



SYS-1019S-MP

Intel® Xeon® Processor E3-1515M v5, 4 Cores, 8 Threads, 45W

- Video Transcoding and Streaming
- Intel® Iris Pro Graphics P580 with 128MB of on-Package cache (eDRAM) for high performance graphics
- HDMI, Display Port, DVI-I, 3 independent displays
- 1x Mini-PCI-E, 1x M.2 PCI-E 3.0 x4, 4x 1GbE LAN and Intel® vPro AMT
- Up to 18 AVC streams or 8 HEVC streams at 1080p 30FPS, or 2 HEVC streams at 4K 30FPS



SYS-5019S-TN4

Intel® Xeon® Processor E3-1585 v5, 4 Cores, 8 Threads, 65W

- Faster Transcoding for Live/Web Streaming or On Demand Video Service
- 4x SATA3(6Gbps) via C236; RAID 0, 1, 5, 10
- Intel® Iris Pro Graphics with 128MB of on-Package cache (eDRAM) for high performance graphics
- VHD, Media CODEC (HEVC, JPEG, VP8) and IPMI 2.0 (Shared LAN)
- Up to 18 AVC streams or 8 HEVC streams at 1080p 30FPS, or 2 HEVC streams at 4K 30FPS



SYS-5019S-M-G1585L

Intel® Processor E3-1585L v5, 4 Cores, 45W

- 2D/3D and CAD Applications
- Cloud and Virtualization needs
- Network Video Compression
- Network Security Appliance
- Support VHD & Quick Sync Video
- IRIS PRO OPTIMIZATIONS GT4e BUILD-IN



SYS-5019S-MR-G1585L

Intel® Processor E3-1585L v5, 4 Cores, 45W

- Cloud and Virtualization needs
- 2D/3D and CAD Applications
- Network Video Compression
- Network Security Appliance
- Support VHD & Quick Sync Video
- IRIS PRO OPTIMIZATIONS GT4e BUILD-IN

X11 Intel® Xeon® E3-1500 v5 Motherboards (SoC) GT4e AMT vPro with Iris Pro Graphics

X11SSV-M4



E3-1515M v5

X11SSV-M4F



E3-1585 v5

X11SSH-GF-1585(L)



E3-1585 v5/E3-1585L v5

X11SSH-GTF-1585(L)



E3-1585 v5/E3-1585L v5

Intel® Core i7, i5, i3 (Skylake-S/Kabylake-S) Single Processor Media Processing Server Solutions

Higher Performance with improved graphics performance and better power efficiency



The 6th Gen Intel® Core processors deliver significant improvements in graphics performance and offer stunning visuals for gaming as well as compelling 4K content creation and media playback via AVX 2.0. Offers enhanced security through AES instructions for faster encryption as well as BIOS/FW protection, new I/O connectivity and multiple independent display capabilities.

SYS-1019S-M2



SC514



X11SSZ-QF

Compact 1U Core i7 Embedded Server

Up to 64GB Unbuffered non-ECC, DDR4-2133MHz in 4 DIMM slots
17.2" x 1.7" x 16.9" (437 x 43 x 429mm)

- Intel® 7th/6th Generation Core i7/i5/i3 series, Intel® Celeron® Intel® Pentium® Remote management via IPMI or vPro | [Q170](#)
- 2x Gigabit LAN ports, 2x DP, DVI-I, 3 independent displays
- Full Height and Full Length add on card support
- Power redundancy or BBP support

SYS-5019S-M2



SC813M7Q



X11SSZ-F

Security and Surveillance

Up to 4 DIMMs, 64 GB of 2133MHz DDR4 UDIMM ECC/NON-ECC
1.7" x 17.2" x 23.4" (43 x 437 x 503mm)

- Intel® Xeon E3-1200 v5 & 7th/6th Gen Intel® Core™ i7, i5, i3, Pentium®, Celeron® processor in LGA1151 | [C236](#)
- 2x DP, DVI-I, total 3x independent display
- 4x 3.5" SATA3 hot-swap drive bays
- Intel® vPro™ and AMT
- 2x Gigabit LAN with AMT
- 1x PCI Express 3.0 x16 FH, FL slot
- 7 year life cycle

SYS-5029S-TN2



SC721



X11SSV-Q

Compact Mini Tower 6th Gen. Core i7 Server

32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots
8.27" x 9.45" x 11" (210.06 x 240.03 x 249.4mm)

- 7th/6th Generation Intel® Core i7, i5, i3, Pentium and Celeron Processor in LGA1151 Socket | [Q170](#)
- Up to 4 Hot-Swap 3.5" SATA3 HDD, 1 internal 2.5" fixed HDD and 1 M.2 (M key 2242/80 PCI-E 3.0 x4)
- 2x Gigabit LAN ports
- Embedded long life
- Quiet Operation

X11 Intel® Core Embedded Processor Family with Intel® C236, Q170, & H110 Chipset

X11SSQ/L	X11SSZ-QF	X11SSZ-TLN4F/F	X11SSV-Q	X11SSV-LVDS
vPro AMT Embedded Desktop	vPro AMT Embedded Skylake IPMI	vPro AMT IPMI 2133MHz DDR4 Embedded	vPro AMT IPMI Dual GbE Embedded	vPro AMT Embedded

Intel® Xeon® E5-2600 v4/v3 (Broadwell) Dual Processor System Solutions

Broadwell Support

All X10 Dual Processor motherboards now support the Intel's latest E5-2600 v4 series (Broadwell) processor for even faster performance. Coupled with the long life C612 PCH that provides up to 7 years of extended service, the E5-2600 v4 processor brings unparalleled performance, efficiency, scalability, and flexibility to handle the most demanding of embedded and embedded cloud workloads for years to come.

NVMe Capability

Many X10 models now support U.2 (NVMe) storage capabilities for unmatched performance (throughput and latency), true hot-swap capability, and cost-effectiveness that beats using tradition add-on card based flash storage solutions.



X10DRD-i(N)T

- Dual E5-2600 v4/v3 CPUs up to 145W
- 8 DIMM DDR4 2133MHz (Up to 512GB)
- 10 SATA 3.0 HDD/SSD ports
- 4 PCI-E 3.0 x16 + 3 PCI-E 3.0 x8 + 1 PCI-E 3.0 x4 in x8 + 1 PCI-E 2.0 x4 in x8
- 7 USB3.0, 2 SuperDOM, TPM support
- 13.05" x 10.5" ATX Form Factor
- 10 SATA3 HDD/SDD ports, Optional dual NVMe Ports (-N Option)



Rear View

SC514-505

16.9" Compact Short-Depth Chassis for X10 DP Solutions

- 500W Platinum Level High-efficiency Power Supply
- 1x 3.5" or 4x 2.5" HDD
- 4x 40x56mm PWM fans
- 2 Full-Height I/O Expansion slot



Medical Applications



X10 Embedded and Industrial-Grade Intel® Xeon® E5-2600 v4/v3 Motherboards (C612 PCH)

X10DRL-i	X10DAi/C	X10DRH-C/i(T)	X10DRH-C/ILN4	X10DRL-CT	X10DDW-i
Mainstream ATX Form Factor up to 145W	SAS3 SW RAID controller	LSI 3108 HW RAID with 8 port SAS3	Quad 1GbE LAN LSI 3008 SAS3 SW RAID	Up to 512GB ECC DDR4 2133MHz; 8x DIMM slots	3x AOC in 1U, SAS3 AOM support, DCO
X10DRD-iTP	X10DRC-T4+/LN4+	X10DRi(-T)	X10DRi-T4+/LN4+	X10DRW-i(T)	X10DRX
4 PCI-E 3.0 10G SFP+	24 DIMM, 1.5TB Reg. ECC DDR4 up to 2133MHz	Intel® X540 Dual Port 10GBase-T LAN	Up to 1.5TB ECC DDR4 2133MHz; 24x DIMM slot	Integrated IPMI 2.0 and KVM with Dedicated LAN	Maximum 11 PCI-E expansion slots

IoT Gateway

An Integrated, Pre-Validated, and Complete Solution

The Supermicro Gateway Solutions for IoT offers a proven solution — pre-validated on industry-leading software— that delivers an application-ready platform.

SYS-E100-8Q



- Fanless Compact Embedded System - Long Life Cycle Support
- Smart Building/Home Gateway - Retail store or Warehouse Hub

- Single Intel® Quark™ SoC X1021; CPU TDP support 2.2W
- 1x Micro SDHC up to 32GB internal slot
- Onboard 512MB DDR3 ECC memory
- Expansion slots: 2x Mini-PCI-E slots, 1x ZIGBee module socket. AOC Modules: Wifi/Bluetooth,



**Development Kit (IDP) for
SYS-E100-8Q series Image developer
Based on DK100 (Cross Hill),
P/N: SFT-IT-IOT-SK100**

**Intel® Gateway Solution for IoT, Intel®
Quark™ SoC X1021; 2.2W only, 512MB
DDR3 ECC memory onboard,
P/N: A15QN/A15QN-E**



SYS-E200-9AP



A2SAV-L

- 4 Core Apollo Lake Goldmont 64-bit 14nm System on Chip
- Digital Signage
- Security Appliance and Video Surveillance
- Indoor Kiosk
- M.2 2242, 2280, with M-key
- (full size) mSATA support
- Dual display for HDMI, Display Port, VGA
- 2x GbE LAN

SYS-E200-9B



X10SBA-LN4F

- Intel® Pentium® Processor N3700, Quad-Core (6W, 4C); Socket FCBGA 1170
- I/O ports: 4x GbE, 1x HDMI, 1x Display Port, 1x VGA, 1x serial port
- 1x IPMI 2.0 w/ dedicated Port & KVM
- Up to 8GB 1600MHz DDR3 Non-ECC SO-DIMM in 2 socket
- 1x SuperDOM, 1x mSATA slot, 1x TPM 1.2 header
- System-on-Chip / 1x 2.5" internal drive bay

SYS-E100-9AP



A2SAN-E

- Apollo Lake-I Atom SoC QC E3940, 9W
- 1 x non-ECC DDR3 SODIMM, up to 8G
- I/O ports: 2x GbE, 1x HDMI, 1x VGA, 2 USB3.0, 4 USB2.0
- 1 x Mini-PCI-E (USB2.0 or PCI-Ex1)
- 1 x M.2, B-key 2280 (SATA/PCI-E/SSD or WWAN/GNSS card)
- Lockable 40W Power Adapter for 12V DC

SYS-E200-8B

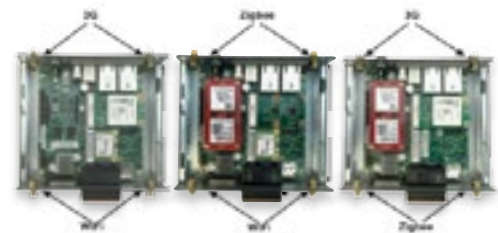


X10SBA

- Single socket FCBGA1170 supports Intel® Celeron™ J1900 (10W, 4C)
- I/O ports: 2x GbE, 1x HDMI, 1x Display Port, 1x VGA
- 1x IPMI 2.0 w/ dedicated Port & KVM
- Up to 8GB 1333MHz DDR3 Non-ECC SO-DIMM in 2 socket
- 1x Mini-PCI-E, 1x mSATA slot, 2x SATA 2.0, 4x SATA 3.0 (RAID 0, 1, 10)

FCC/IC/CE, PTCRB compliance certification ready and also certified by AT&T, T-Mobile, Rogers and Vodafone

Module Model	Name	Supported Region
3G(WCDMA)+WiFi	SYS-E100-8Q-THAW / SYS-E100-8QE-THAW	US, EU
3G(WCDMA)+ZiGbEe US	SYS-E100-8Q-THE3 / SYS-E100-8QE-THE3	US
3G(WCDMA)+ZiGbEe EU	SYS-E100-8Q-THE2 / SYS-E100-8QE-THE2	EU
3G(CDMA)+WiFi	SYS-E100-8Q-TDAW / SYS-E100-8QE-TDAW	US, EU
3G(CDMA)+ZiGbEe US	SYS-E100-8Q-TDE3 / SYS-E100-8QE-TDE3	US
WiFi+BT+ZiGbEe US	SYS-E100-8Q-AWE3 / SYS-E100-8QE-AWE3	US
WiFi+BT+ZiGbEe EU	SYS-E100-8Q-AWE2 / SYS-E100-8QE-AWE2	EU
3G(WCDMA)	SYS-E100-8Q-TH / SYS-E100-8QE-TH	US, EU
3G(CDMA)	SYS-E100-8Q-TD / SYS-E100-8QE-TD	US, EU
ZiGbEe US	SYS-E100-8Q-E3 / SYS-E100-8QE-E3	US
ZiGbEe EU	SYS-E100-8Q-E2 / SYS-E100-8QE-E2	EU
WiFi+BT	SYS-E100-8Q-AW / SYS-E100-8QE-AW	US, EU



Configured for
Two Radio Modules



Configured for
One Radio Modules



Apollo Lake Atom™ 2C & 4C
Pentium N4200 4C



Pentium N4200 4C



Apollo Lake Atom™ 4C E3940



Atom™ Denverton C3000



MODEL	X11SAN A2SAN-H/-E/-L	X11SAA	A2SAV/-L	A2SDi-2C-HLN4F
Processor	Socket FCBGA1296 supported X11SAN: Intel® Pentium™ Processor N4200 A2SAN-H/-E: Intel® Atom™ Processor E3940 A2SAN-L: Intel® Atom™ Processor E3930	Intel® Pentium™ Processor N4200 Socket FCBGA1296 supported	Intel® Atom™ Processor E3940 Socket FCBGA1296 supported	Intel® Atom™ Processor C3338 Single Socket FCBGA1310 supported; CPU TDP support 9W, 1.5-2.2GHz, 4MB
Chipset/System Bus	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	3.5" SBC (146x102mm)	Mini-ITX	Mini-ITX	Mini-ITX
Memory Capacity & Slots	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slots	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slots	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slots	Up to 64GB Register DIMM RDIMM, DDR4-1866MHz Or 32GB Unbuffered ECC/non-ECC UDIMM, DDR3-1866MHz, in 2 DIMM slots
Expansion Slots	1x Full size Mini-PCI-E (USB2.0, PCI-E x1) M.2 Interface: SATA, PCI-E 2.0 x 1, USB2.0 M.2 Form Factor: B-key 2280,	1 PCI-E 2.0 x2 (in x8 slot) 1x Mini-PCI-E with mSATA M.2 Interface: PCI-E 2.0 x2 M.2 Form Factor: 2242, 2280	1 PCI-E 2.0 x2 (in x8 slot) A2SAV: 1x Mini-PCI-E with mSATA M.2 Interface: PCI-E 2.0 x2 M.2 Form Factor: 2242, 2280	1 PCI-E 3.0 up to 4 lanes (in x4 slot)
Onboard RAID Controller	-	Marvel 88SE9230 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10 SoC controller for 2 SATA3 (6 Gbps) ports;	SoC controller for 2 SATA3 (6 Gbps) ports A2SAV: Marvel 88SE9230 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Up to 4 SATA3 (6 Gbps) ports available. Configurable in BIOS
Onboard LAN	X11SAN/A2SAN-H: Dual LAN with Intel® Ethernet Controller I210-AT A2SAN-E/-L: Dual LAN with Intel® Ethernet Controller I210IT	Dual LAN with Intel® Ethernet Controller I210-AT	A2SAV: Dual LAN with Intel® Ethernet Controller I210-AT A2SAV-L: Dual LAN with Intel® Ethernet Controller I210IT	Quad LAN with SoC GbE
Onboard VGA/ Display Ports	1 HDMI, 1 VGA, 1 48-bit LVDS 1 Intel® HD Graphics	1 DP (DisplayPort), 1 HDMI, 1 VGA, 1 eDP (Embedded DisplayPort) 1 Intel® HD Graphics	1 DP (DisplayPort), 1 HDMI, 1 VGA, 1 eDP (Embedded DisplayPort) 1 Intel® HD Graphics	1 VGA 1 Aspeed AST2400 BMC
USB Ports	1 USB 3.1 Gen2 (1 rear Type-C) (<i>not supported on A2SAN-E/-L</i>) 2 USB 3.0 ports (2 rear) 4 USB 2.0 ports (4 via headers)	7 USB 2.0 ports (2 rear + 4 via headers + 1 Type A) 2 USB 3.0 ports (2 rear)	2 USB 3.0 ports (2 rear) A2SAV: 7 USB 2.0 ports (2 rear + 4 via headers + 1 Type A) A2SAV-L: 4 USB 2.0 ports (2 rear + 2 via headers)	4 USB 2.0 ports (2 rear + 2 via headers) 1 USB 3.0 ports (+ 1 Type A)
Other Onboard I/O Devices	ALC 888S HD Audio, 1 Line-out and 1 Mic-in via header (<i>not supported on A2SAN-E/-L</i>) 4 COM (2 x RS-232, 2 x RS-232/422/485 via headers) 1 8-bit GPIO via header 1 SMBus via header On board TPM2.0 (<i>not supported on A2SAN-E/-L</i>)	1 Port SuperDOM ALC 888S HD Audio 3 COM Ports (1 rear, 2 headers) 1x COM in RJ45, 1X COM in RS232, and 1X COM in RS485.	1 Port SuperDOM A2SAV: ALC 888S HD Audio 3 COM Ports (1 rear, 2 headers) 1x COM in RJ45, 1X COM in RS232, and 1X COM in RS485.	1 Port SuperDOM 1 fast UART 16550 serial; TPM Header 1 COM Ports (1 header)
Manageability	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SUM, SuperDoctor® 5
Health Monitoring	+12V, +5V, +3.3V, +3.3V standby, 1.35V, VCGI, VBAT, and System temperature	+1.8V, +12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, System level contr	+12V, +5V, +5V standby A2SAV: +1.8V, +3.3V standby, Monitors CPU voltages, System level control	+1.8V, +12V, 1.05 (PCH), tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT, VCGI
Thermal Control	1x 4-pin fan headers, Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	2x 4-pin fan headers (up to 2 fans), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	2x 4-pin fan headers (up to 2 fans), Fan speed control, Low noise fan speed control, PWM fan speed control A2SAV: System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, Support 3-pin fans (w/o speed control), Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, SDDC, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI



Skylake-H E3-1515M v5
Intel Iris Pro Graphics P580
Intel AMT vPro



Skylake-H E3-1585 v5
Intel Iris Pro Graphics P580
(VHD) IPMI 2.0



7th & 6th Gen. Core



7th & 6th Gen. Core



MODEL	X11SSV-M4	X11SSV-M4F	X11SSV-LVDS	X11SSQ-L
Processor	Intel® Xeon® processor E3-1513 v5 Single Socket FCBGA1440 supported; QPI up to 8.0GT/s; CPU TDP support 45W, 2.8-3.7GHz, 8MB	Intel® Xeon® processor E3-1585 v5 Single Socket FCBGA1440 supported; QPI up to 8.0GT/s; CPU TDP support 65W, 3.5-3.9GHz, 8MB	Intel® 7 th /6 th Generation Core™ i3 series Intel® 7 th /6 th Generation Core™ i5 series Intel® 7 th /6 th Generation Core™ i7 series Intel® Celeron® Intel® Pentium® Socket H4 (LGA 1151) supported; CPU TDP support Up to 91W	Intel® 7 th /6 th Generation Core™ i3 series Intel® 7 th /6 th Generation Core™ i5 series Intel® 7 th /6 th Generation Core™ i7 series Intel® Pentium® Socket H4 (LGA 1151) supported; QPI up to 5.0GT/s; CPU TDP support Up to 91W
Chipset/System Bus	Intel® CM236	Intel® C236	Intel® Q170 Express	Intel® H110
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX 6.7" x 6.7"	Micro-ATX 9.6" x 9.6"
Memory Capacity & Slots	Up to 32GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	Up to 32GB Unbuffered ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC UDIMM, DDR4-2133MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 (Bifurcation support on PCI-E x16 slot) Mini PCI-E with mSATA support M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2280	1 PCI-E 3.0 x16 (Bifurcation support on PCI-E x16 slot) Mini PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, M Key M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2242, 2280	1 PCI-E 3.0 x16 Mini-PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, M Key M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2242, 2280	1 PCI-E 3.0 x16 1 PCI-E 2.0 x4 1 PCI-E 2.0 x1 PCI-E 2.0 x4 with open slot
Onboard RAID Controller	Intel® CM236 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Intel® RSTe	Intel® C236 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Intel® RSTe	Intel® Q170 Express controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Intel® RST	Intel® H110 controller for 4 SATA3 (6 Gbps) ports; Intel® RST
Onboard LAN	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT Dual LAN with Intel® Ethernet Controller I350-AM2	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT Dual LAN with Intel® Ethernet Controller I350-AM2 IPMI Shared LAN with I210-AT	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT	Single LAN with Intel® PHY I219LM LAN controller
Onboard VGA/ Display Ports	1 HDMI, 1 DP (DisplayPort), 1 DVI - I 1 Intel® Iris Pro Graphics P580	1 DVI - A 1 Aspeed AST2400 BMC *Intel® Iris Pro P580 for VHD*	1 HDMI, 1 DP (DisplayPort), 1 LVDS 1 Intel® HD Graphics 3 Independent Displays	1 HDMI, 1 DP (DisplayPort), 1 DVI - D 1 Intel® HD Graphics 2 Independent Displays
USB Ports	5 USB 2.0 ports (+ 4 via headers + 1 Type A) 4 USB 3.0 ports (4 rear)	5 USB 2.0 ports (+ 4 via headers + 1 Type A) 4 USB 3.0 ports (4 rear)	5 USB 2.0 ports (+ 4 via headers + 1 Type A) 6 USB 3.0 ports (4 rear + 2 via header)	6 USB 2.0 ports (2 rear + 4 via headers) 4 USB 3.0 ports (2 rear + 2 via header)
Other Onboard I/O Devices	2 ports SuperDOM ALC 8885 HD Audio PS/2 Combo mouse and keyboard TPM Header 1 COM Port in RJ45 Socket	2 ports SuperDOM ALC 8885 HD Audio TPM Header 1 COM Port in RJ45 Socket	2 ports SuperDOM ALC 8885 HD Audio TPM 2.0 Header 1 COM Ports (1 header) SGPIO Header, SMBus header, GPIO	1 Port SuperDOM ALC 8885 HD Audio PS/2 Combo mouse and keyboard TPM 2.0 Header 2 COM Ports (2 headers) Force On mode by jumper and AC recovery
Manageability	AMT, SuperDoctor® 5, vPro, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	NMI, SuperDoctor® 5, Watchdog
Health Monitoring	+12V, +3.3V, +5V, +5V standby, 3 -fan status, Chassis intrusion header, Monitors CPU voltages	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, vBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 4 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, 4 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control
Thermal Control	3x 4-pin fan headers (up to 3 fans), Fan speed control, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, Thermal control tachometer fan connectors	3x 4-pin fan headers (up to 3 fans), Fan speed control, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), Fan speed control, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL	ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	UEFI 128Mb



QSV and VHD Support



vPro AMT IPMI Embedded 1U Optimized Core i7 uATX



vPro AMT IPMI Dual 10GbE Embedded 1U Optimized uATX



vPro AMT mini-ITX



MODEL	X11SSH-F X11SSH-LN4F	X11SSZ-QF	X11SSZ-F X11SSZ-TLN4F	X11SSV-Q
Processor	Intel® Xeon® processor E3-1200 v5 product family, Intel® 6th Generation Core™ i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 80W	Intel® 7 th /6 th Generation Core™ i7/i5/i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Xeon® processor E3-1200 v5 product family, Intel® 6th Generation Core™ i7/i5/i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® 7 th /6 th Generation Core™ i7/i5/i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 95W
Chipset/System Bus	Intel® C236	Intel® Q170	Intel® C236	Intel® Q170
Form Factor	micoATX 9.6" x 9.6"	uATX 9.6" x 9.6"	uATX 9.6" x 9.6"	Mini-ITX 6.7" x 6.7"
Memory Capacity & Slots	64GB Unbuffered ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	64GB Unbuffered Non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot) 1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x16 (in x16 slot) 2 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x16 (in x16 slot) 2 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x16 Mini-PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, 2242/2280
Onboard RAID Controller	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® Q170 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® Q170 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	-F: Dual LAN with Intel® Ethernet Controller i210-AT -LN4F: Quad LAN with Intel® Ethernet Controller i210-AT	Dual 1GbE LAN with Intel® i219LM and i210AT	Dual 1GbE LAN with Intel® i219LM and i210AT Dual 10GbE with Intel® X550 (-TLN4F Only)	Dual 1GbE LAN with Intel® i219LM and i210AT
Onboard VGA/ Display Ports	1 VGA (from Aspeed AST2400 BMC)	2 DP (DisplayPort) 1 DVI-I Intel® HD Graphics 3 Independent Displays 1 Aspeed AST2400 BMC VGA port	2 DP (DisplayPort) 1 DVI-I Intel® HD Graphics 3 Independent Displays 1 Aspeed AST2400 BMC VGA Port	1 HDMI 1 DP (DisplayPort) 1 DVI - I Intel® HD Graphics 3 Independent Displays
USB Ports	5 USB 3.0 ports (2 rear + 2 via header + 1 Type A) 6 USB 2.0 ports (2 rear + 4 via headers)	4 USB 3.0 ports (2 rear + 2 viaheader) 9 USB 2.0 ports (2 rear + 6 viaheaders + 1 Type A)	4 USB 3.0 ports (2 rear + 2 viaheader) 9 USB 2.0 ports (4 rear + 4 viaheaders + 1 Type A)	6 USB 3.0 ports (4 rear + 2 via header) 5 USB 2.0 ports (+ 4 via headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM 1.2 onboard Header 2 COM Ports (1 rear, 1 header)	1 Port SuperDOM 1 SATA DOM power connector ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)	1 Port SuperDOM 1 SATA DOM power connector ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)	2 SuperDOM Ports ALC 888S HD Audio TPM Header 2 COM Ports (2 rears)
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watch Dog	IPMI 2.0 + KVM with dedicated LAN, AMT/vPRO, NMI, SuperDoctor 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, AMT/vPRO, NMI, SuperDoctor 5, Watchdog	AMT/vPRO, NMI, SuperDoctor 5, Watchdog
Health Monitoring	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control
Thermal Control	5 4-pin, Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, VHD, WOL, M.2 NGFF connector	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, System level control, UID, WOL, RSTe	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, System level control, UID, VHD, WOL, RSTe	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, M.2 NGFF connector, System level control, WOL, RST
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI



**vPro AMT,
Embedded**



**Workstation
ATX PCI-32**



**Workstation
ATX**



**Braswell SoC
Quad LAN
IPMI
mini-ITX**



MODEL	X11SSQ X11SSQ-L	X11SAE X11SAE-F	X11SAE-M	X11SBA-LN4F X11SBA-F
Processor	Intel® 7 th /6 th Gen Core i7/i5/i3 series, Intel® Celeron®, Intel® Pentium® processors; CPU TDP support up to 95W TDP Single Socket H4 (LGA 1151)	Intel® Xeon® processor E3-1200 v5 product family, Intel® 6 th Generation Core™ i7/i5/i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Xeon® processor E3-1200 v5 product family, Intel® 6 th Generation Core™ i7/i5/i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Pentium® Processor N3700 Socket FCBGA1170 supported; CPU TDP support 6W 1.6-2.4GHz 2MB
Chipset/System Bus	Intel® Q170 (X11SSQ), H110(X11SSQ-L)	Intel® C236	Intel® C236	SoC (System on Chip)
Form Factor	microATX 9.6" x 9.6"	ATX 12" x 9.6"	microATX 9.6" x 9.6"	Mini-ITX 6.7" x 6.7"
Memory Capacity & Slots	4x 288-pin DDR4 DIMM slots Up to 64GB DDR4 Non-ECC UDIMM X11SSQ-L: up to 32GB in 2 DIMM slots	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots X11SAE: 2 PCI-E 3.0 x16*, 3 PCI-E 3.0 x1, 2 - 5VPCI 32bit; X11SAE-F: 2 PCI-E 3.0 x16*, 2 PCI-E 3.0 x1, 2 - 5V PCI 32bit; 2 PCI-E x16 slots are running at 16/NA or 8/8	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	8GB Unbuffered non-ECC SO-DIMM, DDR3-1600MHz, in 2 DIMM slots
Expansion Slots	X11SSQ: 1 PCI-E 3.0 x16, 2 PCI-E 3.0 x4, 1 PCI-E 3.0 x1, M.2 PCI-E x2 2242/60/80 X11SSQ-L: 1 PCI-E 3.0 x16, 1 PCI-E 2.0 x1, 1 PCI-E 2.0 x1		1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 1 - 5V PCI 32bit	1 PCI-E 2.0 x1 (in x8 slot) 1 Mini-PCI-E with mSATA support
Onboard RAID Controller	X11SSQ: Q170 controller for 6 SATA3 ports; RAID 0,1,5,10 X11SSQ-L: H110 controller for 4 SATA3 ports	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 + 1 PCI-E M.2 (PCI-E x4, 2242/2260/2280)(No Raid support)	Intel® C236 controller for 8 SATA3 (6 Gbps)ports; RAID 0,1,5,10 + 1 PCI-E M.2 (PCI-E x4, 2242/2260/2280/22110) (No Raid Support)	SoC controller for 2 SATA3 (6 Gbps) ports
Onboard LAN	X11SSQ: Dual 1GbE LAN with Intel® i219LM and i210AT X11SSQ-L: Single 1GbE LAN with Intel® i219LM	Single LAN with Intel® Ethernet Controller i210-AT (Share with IPMI); Single LAN with Intel® PHY i219LM LAN controller	Single LAN with Intel® Ethernet Controller i210-AT; Single LAN with Intel® PHY i219LM LAN controller	-LN4F: Quad 1GbE LAN with Intel® i210AT -F: Dual 1GbE LAN with Intel® i210AT
Onboard VGA/ Display Ports	1 HDMI, 1 DVI-D 1 DP (Display Port) 1 eDP (X11SSQ only) 3 Independent Displays -L: 2 Independent Displays	1 DVI-I 1 DP (DisplayPort) 1 HDMI 1 VGA ***VGA is for IPMI only***	1 DVI-D 1 DP (DisplayPort) 1 HDMI ***DP support up to DP1.2, HDMI support up to HDMI 1.4***	1 DP (DisplayPort) 1 HDMI Intel® HD Graphics 1 Aspeed AST2400 BMC VGA Port
USB Ports	4x USB 3.0 ports (2 rear + 2 via header) 6x USB 2.0 ports (2 rear + 4 via headers) X11SSQ: 2x additional rear USB2.0 ports	6 USB 3.0 ports (2 rear + 4 via header) 2 USB 3.1 ports (2 rear) X11SAE: 8 USB 2.0 ports (2 rear + 6 via headers) X11SAE-F: 6 USB 2.0 ports (2 rear + 4 via headers)	6 USB 3.0 ports (2 rear + 4 via header) 6 USB 2.0 ports (2 rear + 4 via headers) 2 USB 3.1 (10 Gbps) ports (2 Rear)	2 USB 3.0 ports (2 rear) 7 USB 2.0 ports (2 rear + 4 via headers + 1 Type A)
Other Onboard I/O Devices	1x SuperDOM (Disk on Module) ports with built-in power SGPIO Header (X11SSQ only) SMBus header	Ext. Power Connector Only ALC 8885 HD Audio TPM 1.2 onboard Header 2 COM Ports (2 headers)	Ext. Power Connector Only ALC 8885 HD Audio TPM 1.2 onboard Header 1 COM Port (1 header) Thunderbolt AIC 2.0/3.0	1 Port SuperDOM ALC 8885 HD Audio TPM Header 2 COM Ports (2 headers)
Manageability	SuperDoctor 5, NMI, Watchdog AMT vPRO (X11SSQ only)	-F: IPMI 2.0 + KVM; Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watch Dog, AMT vPro (non-F)	AMT, SuperDoctor® 5, Watchdog , vPro	IPMI2.0 KVM with dedicated LAN NMI SUM SuperDoctor® 5 Watchdog
Health Monitoring	Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control
Thermal Control	Monitoring for CPU and chassis environment CPU thermal trip support I2C temperature sensing logic Thermal Monitor 2 (TM2) support PECI	5 4-pin, Fan speed control, Overheat LED indication	5 4-pin, Fan speed control, Overheat LED indication	2 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	Chassis intrusion detection Chassis intrusion header RoHS, RST	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, WOL	8-pin 12v DC power connector, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, System level control, UID, WOL, 0°C -60°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI



**Low Power Bay Trail
4-Core SoC
Mini-ITX**



**Xeon® D SoC
4/6/8/16-Core
128GB Memory
Dual 10GbE, Dual 1GbE**



**Xeon® D SoC
8-Core
128GB Memory
Dual 1GbE**



**Xeon® D SoC
2/4-Core
128GB Memory
Dual 10GbE**



**Xeon® D SoC
4/6/8/12/16-Core
128GB Memory
Dual 10GbE, Dual 1GbE**



MODEL	X10SBA X10SBA-L	X10SDV-TLN4F X10SDV-16C+-TLN4F X10SDV-6C+-TLN4F X10SDV-4C+-TLN4F	X10SDV-F X10SDV-8C+-LN2F	X10SDV-4C-TLN2F X10SDV-2C-TLN2F	X10SDV-16C-TLN4F X10SDV-12C-TLN4F X10SDV-8C-TLN4F X10SDV-6C-TLN4F X10SDV-4C-TLN4F
Processor	Intel® Celeron® Processor J1900 10W FCBGA1170, 2.0-2.42GHz	Intel® Xeon® Processor D series; Socket FCBGA 1667 supported; D-1541, 12MB, 8 Core, 45W; 16C+: D-1587, 24MB, 16 Core, 65W; 6C+: D-1528, 9MB, 6 Core, 35W; 4C+: D-1518, 6MB, 4 Core, 35W; with Active Heatsink	Intel® Xeon® Processor D-1541, 8 Core; Socket FCBGA1667 supported; CPU TDP support 45W; -8C+: with Active Heatsink -F: with Passive Heatsink	Intel® Xeon® Processor D series, Socket FCBGA 1667 supported; 4C: D-1520/1521, 6MB, 4 Core, 45W; 2C: D-1508, 3MB, 2 Core, 25W; with Passive Heatsink	Intel® Xeon® Processor D series, Socket FCBGA 1667 supported; 16C: D-1587, 24MB, 16 Core, 65W; 12C: D-1557, 18MB, 12 Core, 45W; 8C: D-1541, 12MB, 8 Core, 45W; 6C: D-1528, 9MB, 6 Core, 35W; 4C: D-1518, 6MB, 4 Core, 35W; with Passive Heatsink
Chipset/System Bus	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)
Form Factor	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"
Memory Capacity & Slots	2 DIMM slots, 8GB with two 4GB SODIMM configuration, 1.35V only	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 2.0 x2 1 Mini-PCI-E slot, 1 mSATA slot	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280
Onboard RAID Controller	SoC controller for 2 SATA2 (3 Gbps) ports; Marvel 88SE9230 for 4X SATA3 (6 Gbps) with RAID 0,1,10 [non -L]	SoC controller for 6 SATA3 (6 Gbps) ports; RSTe, Intel® Raid 0,1,5,10	SoC controller for 6 SATA3 (6 Gbps) ports; RSTe, Intel® Raid 0,1,5,10	SoC controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 RSTe	SoC controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 RSTe
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210-AT	Dual 10GBase-T with SoC Dual 1GbE LAN with Intel® i350-AM2;	Dual 1GbE LAN with Intel® i350-AM2	Dual 10GBase-T with SoC	Dual 10GBase-T with SoC Dual 1GbE LAN with Intel® i350-AM2;
Onboard VGA/ Display Ports	Intel® HD 4000 Graphic Controller DVI-I + HDMI + DisplayPort + eDP	1 VGA via Aspeed AST2400 BMC			
USB Ports	4 USB 3.0 ports (2 rear, 2 via headers) 8 USB 2.0 ports (2 rear, 6 via headers)	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear)	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear)	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear)	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	1 fast UART 16550 serial port, PS/2 mouse & keyboard, TPM header, Audio Header	1 Port SuperDOM, TPM Header, 1 COM Ports (1 header), GPIO and SMBus headers			
Manageability	Watch Dog, SuperDoctor® 5 AMT 8.0, vPro	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, Watchdog			
Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of three 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT			
Thermal Control	Overheat LED indication, thermal control tachometer fan connectors	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors			
Other Features	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology. 0°C – 60°C operating temperature	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL			
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI



Xeon® D SoC
16-Core, 128GB Memory
22x SATA Storage Device
2x 10GbE SFP+, 6x 1GbE



Xeon® D SoC
2/4/8 Core, 128GB Memory
22x SATA Storage Device
2x 10GbE SFP+, 2x 1GbE



Xeon® D SoC
2/4 Core, 128GB Memory, 2x 10GbE
SFP+, 6x 1GbE



Xeon® D SoC
2/4 Core, 128GB Memory
2x 10GbE SFP+, 2x 1GbE



Xeon® D SoC
8/12/16 Core, 128GB Memory
2x 10GbE SFP+, 2x 1GbE



MODEL	X10SDV-7TP8F	X10SDV-7TP4F X10SDV-4C-7TP4F X10SDV-2C-7TP4F	X10SDV-TP8F X10SDV-2C-TP8F	X10SDV-4C+-TP4F X10SDV-2C-TP4F	X10SDV-8C-TLN4F+ X10SDV-12C-TLN4F+ X10SDV-16C-TLN4F+
Processor	Intel® Xeon® Processor D-1587 product family; Socket FCBGA1667 supported; CPU TDP support 65W	Intel® Xeon® Processor D-1537, 8 Core; Socket FCBGA 1667 supported; CPU TDP support 35W 4C: D-1518, 6MB, 4 Core, 35W 2C: D-1508, 3MB, 2 Core, 25W	Intel® Xeon® Processor D-1518, 4 Core; Socket FCBGA 1667 supported; CPU TDP support 35W; 2C: D-1508, 3MB, 2 Core, 25W	Intel® Xeon® Processor D-1518, 4 Core; Socket FCBGA 1667 supported; CPU TDP support 35W 2C: D-1508, 3MB, 2 Core, 25W	Intel® Xeon Processor D series, Socket FCBGA 1667 supported; 16C: D-1587, 24MB, 16 Core, 65W; 12C: D-1557, 18MB, 12 Core, 45W; 8C: D-1537, 12MB, 8 Core, 35W; with Passive Heatsink
Chipset/System Bus	SoC (System on Chip)				
Form Factor	Flex ATX 9.0" x 7.25"	Flex ATX 9.0" x 7.25"	Flex ATX 9.0" x 7.25"	Flex ATX 9.0" x 7.25"	Mini-ITX 6.7" x 6.7"
Memory Capacity & Slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots				
Expansion Slots	2 PCI-E 3.0 x8 M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	2 PCI-E 3.0 x8, M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	2 PCI-E 3.0 x8, M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	2 PCI-E 3.0 x8 M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280
Onboard RAID Controller	SoC controller for 4 SATA3 (6 Gbps) ports; RSTe, Intel® Raid 0,1,5,10; LSI® 2116 SW controller for 16 SATA3 (6 Gbps) ports; SAS2 and SATA3;	SoC controller for 4 SATA3 (6 Gbps) ports; RSTe, Intel® Raid 0,1,5,10; LSI® 2116 SW controller for 16 SATA3 (6 Gbps) ports; SAS2 and SATA3;	SoC controller for 4 SATA3 (6 Gbps) ports; RSTe, Intel® Raid 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RSTe, Intel® Raid 0,1,5,10	SoC controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 RSTe
Onboard LAN	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210; Quad 1GbE LAN with Intel® i350-AM4	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210; Quad 1GbE LAN with Intel® i350-AM4	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210	Dual 10GbE SFP+ from SoC Dual 1GbE LAN with Intel® i350-AM2;
Onboard VGA/ Display Ports	1 VGA via Aspeed AST2400 BMC				
USB Ports	2 USB 3.0 ports (2 rear); 5 USB 2.0 ports (+ 4 via headers + 1 Type A)	2 USB 3.0 ports (2 rear), 5 USB 2.0 ports (+ 4 via headers + 1 Type A)			2 USB 2.0 ports (2 via headers) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	2 ports SuperDOM, TPM 2.0 Header, 1 COM Ports (1 header), GPIO and SMBus headers	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers	1 Port SuperDOM, TPM Header, 1 COM Port (1 header), GPIO and SMBus headers
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5, Watchdog				
Health Monitoring	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 6 -fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT				
Thermal Control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors				4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL				4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI



Avoton™ and Rangeley Low Power mini ITX



Avoton™ and Rangeley Low Power uATX



Rangeley 3 pair LAN bypass, Quick Assist Technology uATX



Core™ i7/i5/i3 Triple Display mini-ITX



vPro AMT mSATA Slot uATX



MODEL	A1SAi-2750F/2550F A1SRi-2758F/2558F A1SRi-2358F	A1SAM-2750F A1SAM-2550F A1SRM-2758F A1SRM-2558F	A1SRM-LN7F-2758 A1SRM-LN7F-2358	X10SLV/-Q	X10SLQ
Processor	A1SAi-2750F/2550F: Intel® Avoton Atom™ Processor C2750 (8C/20W) or C2550 (4C/14W) A1SRi-2758F/2558F/2358F: Intel® Rangeley Atom™ Processor C2758 (8C/20W), C2558 (4C/15W), or C2358 (2C/7W) Socket FCBGA1283 CPU	Intel® Avoton Atom™ Processor C2750 (8C/20W) C2550 (4C/14W) C2758 (8C/20W) or C2558 (4C/15W) Socket FCBGA1283 CPU	Intel® Atom™ Processor C2758 (8C/20W) or C2358 (2C/7W) Socket FCBGA1283 CPU	Intel® 4th Generation Core™ i7/i5/i3 series, Intel® Celeron™, Pentium® series; Socket LGA 1150 supported; CPU TDP support Up to 84W TDP	Intel® 4th Generation Core™ i7/i5/i3 series, Intel® Celeron™, Pentium® series; Socket LGA 1150 supported; CPU TDP support Up to 84W TDP
Chipset/System Bus	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)	X10SLV: Intel® H81 X10SLV-Q: Intel® Q87	Intel® Q87 Express Chipset
Form Factor	Mini-ITX 6.75" x 6.75"	MicroATX 9.6" x 7.5"	MicroATX 8.0" x 9.6"	Mini-ITX 6.7" x 6.7"	MicroATX 9.6" x 9.6"
Memory Capacity & Slots	Up to 64GB ECC SODIMM in 4 slots (Up to 16GB for A1SRi- 2358F)	Up to 64GB ECC SODIMM in 4 slots (Up to 16GB for A1SRi- 2358F in 2 slots)	Up to 64GB ECC/Non ECC UDIMM in 4 slots (-2358 up to 16GB in 2 slots)	Up to 16GB DDR3 1600MHz Non ECC SODIMM in 2 slots	Up to 32GB Unbuffered non-ECC, DDR3-1600MHz in 4 DIMM slots
Expansion Slots	1 PCI-E 2.0 x8	1 PCI-E 2.0 x8 1 PCI-E 2.0 x4	1 PCI-E 2.0 x4 (in x8 slot)	1 PCI-E 2.0 x16 (3.0 for -Q) Mini-PCI-E with mSATA support	1 PCI-E 3.0 x16 (in x16 slot), 1 PCI-E 2.0 x4, 1 PCI-E 2.0 x1, Mini-PCI-E with mSATA support
Onboard RAID Controller	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps); (A1SRi-2358F: 2 SATA2)	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps); (A1SRi-2358F: 2 SATA3 + 2 SATA2)	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps)	Intel® H81/Q87 controller for 2 SATA3 (6 Gbps) ports; 2 SATA2 (3 Gbps)	Intel® Q87 controller for 5 SATA3 (6Gbps) ports; 0,1,5,10
Onboard LAN	Quad 1GbE LAN (Intel® i354)	Quad 1GbE LAN (Intel® i354)	Quad 1GbE LAN (Intel® i354) Dual 1GbE LAN (Intel® i350- AM2), Single 1GbE LAN (Intel® i210-AT)	Dual LAN with Intel® i217V & i210AT	Dual LAN with Intel® i217LM & i210AT
Onboard VGA/ Display Ports	1 VGA via Aspeed AST2400 BMC				HDMI, DP (DisplayPort), DVI-D, VGA Intel® HD 4600 Graphics, 3 Independent Displays
USB Ports	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A). 2 USB 2.0 ports (2 rear)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	2 USB 3.0 ports (2 rear +) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via header + 8 USB 2.0 ports (4 rear + 4 via headers)
Other Onboard I/O Devices	1 SATA DOM power connector 2 fast UART 16550 serial (1 rear, 1 header); TPM 1.2 Header	1 SATA DOM power connector 2 fast UART 16550 serial (1 rear, 1 header); TPM 1.2 Header	1 SATA DOM power connector 2 fast UART 16550 serial; TPM 1.2 Header, 1SuperDOM, 1 mSATA slot	1 SATA DOM power connector, ALC 888S HD Audio Front panel header, 5 COM ports (1 with RS422/485), TPM 1.2 Header	1 SATA DOM power connector ALC 888S, 7.1 HD Audio 4 COM port headers (1 with RS422/485), PS/2 Combo mouse and keyboard; TPM 1.2 Header
Manageability	IPMI2.0, SuperDoctor 5, Watch Dog			SuperDoctor 5, Watch Dog	SuperDoctor 5, Watch Dog, vPro
Health Monitoring	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby and total of three 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby and total of three 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, 4-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control
Thermal Control	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors				Overheat LED indication, fan speed control, Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Turbo Boost Technology or Intel® QuickAssist Technology, System level control, UID, WOL, 0°C -60°C operating temperature	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Turbo Boost Technology or Intel® QuickAssist Technology, System level control, UID, WOL, 0°C -60°C operating temperature	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® QuickAssist Technology, System level control, UID, WOL, 0°C -60°C operating temperature	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection, System level control, WOL, 0°C -60°C operating temperature	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection, Intel® Smart Response Technology, System level control, WOL, 0°C -60°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI



VHD Support uATX



Workstation and Desktop ATX PCI-32



3rd Gen. Core i7 vPro, mSATA mini-ITX



3rd Gen. Core i7 IPMI, Quad LAN mini-ITX



MODEL	X10SLH-F	X10SAE	X9SPV-M4 X9SPV-M4-3UE X9SPV-M4-3QE	X9SPV-LN4F-3QE X9SPV-LN4F-3LE
Processor	Intel® Xeon® processor E3-1200 v4/v3 series, Intel® 4th Generation Core™ i3 series, Intel® Pentium®, Celeron®; Socket LGA 1150 supported	Intel® 4th Generation Core™ i3 series Intel® 4th Generation Core™ i5 series Intel® 4th Generation Core™ i7 series Intel® Xeon® processor E3-1200 v4/v3 series. Socket LGA 1150 supported; CPU TDP support Up to 135W TDP	Intel® Core™ i7-3555LE 25W, i7-3612QE(-3QE) 35W, i7-3517UE(-3UE) 17W, FCBGA1023	Intel® Core™ i7-3612QE 35W, Quad Core (-3QE), i7-3555LE(-3LE) 25W, FCBGA1023
Chipset/System Bus	Intel® C226	Intel® C226	Mobile Intel® QM77 Express Chipset	Mobile Intel® QM77 Express Chipset
Form Factor	MicroATX 9.6" x 9.6"	ATX 12" x 9.6"	Mini-ITX 6.75" x 6.75"	Mini-ITX 6.75" x 6.75"
Memory Capacity & Slots	2 DIMM slots, 8GB with two 4GB SODIMM configuration, 1.35V only	32GB Unbuffered ECC/non-ECC, DDR3-1600MHz in 4 DIMM slots	Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots	Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 2.0 x4 (in x8 slot)	2 PCI-E 3.0 x16 slots (16/NA or 8/8) 3 PCI-E 2.0 x1 , 2 - 5V PCI 32bit	1 PCI-E 3.0 x 16 1 Mini-PCI-E (mSATA support)	1 PCI-E 3.0 x16
Onboard RAID Controller	Intel® C226 controller for 6 SATA3 (6Gbps) ports; 0,1,5,10	Intel® C226 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 ASM1061 controller for 2 SATA3 (6 Gbps) ports;	2x SATA 3.0 (6Gb/s) ports w/ RAID 0, 1 4x SATA 2.0 (3Gb/s) ports w/ RAID 0, 1, 5, 10	2x SATA 3.0 (6Gb/s) ports w/ RAID 0, 1 4x SATA 2.0 (3Gb/s) ports w/ RAID 0, 1, 5, 10
Onboard LAN	Dual LAN with Intel® Ethernet Controller i210AT	Single LAN with Intel® Ethernet Controller I210 Single LAN with Intel® Ethernet Controller I217	Quad LAN ports with 3 Intel® 82574L and one Intel® 82579LM Gigabit Ethernet Controllers	Quad LAN ports with Intel® 82574L Gigabit Ethernet Controllers
Onboard VGA/ Display Ports	VGA, Aspeed AS2400 BMC	1 VGA, 1 DVI - I, 1 DP (DisplayPort), 1 HDMI	Intel® HD 4000 Graphic Controller DVI-I + HDMI + DisplayPort + eDP	BMC integrated Matrox G200 or Intel® HD Graphics 4000 VGA
USB Ports	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A); 6 USB 2.0 ports (2 rear + 4 via headers)	6 USB 3.0 ports (2 rear + 4 via header) 10 USB 2.0 ports (4 rear + 6 via headers)	4 USB 3.0 ports (2 rear, 2 via headers) 8 USB 2.0 ports (2 rear, 6 via headers)	4 USB 3.0 ports by headers 6 USB 2.0 ports (4 rear + 2 via headers)
Other Onboard I/O Devices	1 SATA DOM power connector 1 fast UART 16550 serial COM port headers (1 rear 1 header); 2 Total COM Ports; TPM 1.2 Header	1 SATA DOM power connector 7.1 HD Audio PS/2 mouse and keyboard; Type B of 1394a TPM 1.2 onboard Header 2 COM Ports (2 headers)	1 fast UART 16550 serial port PS/2 mouse & keyboard TPM header Audio Header	2 fast UART 16550 serial ports (1 rear, 1 header) PS/2 mouse & keyboard TPM header
Manageability	IPMI 2.0 + KVM with dedicated LAN, NMI, SuperDoctor 5, Watch Dog	AMT, SuperDoctor 5, vPro, Watchdog	Watch Dog, SuperDoctor® 5, AMT 8.0, vPro	IPMI 2.0 + KVM with dedicated LAN, Watch Dog, SuperDoctor® 5
Health Monitoring	Monitors CPU voltages, +12V, +3.3V, +5V, +5V Standby and total of 5 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	+1.8V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), Chassis intrusion header, Monitors CPU voltages, Supports system management utility	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of three 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
Thermal Control	Overheat LED indication, fan speed control, 5x 4-pin fan headers with tachometer monitoring	5 4-pin, Fan speed control, Overheat LED indication	Overheat LED indication, thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors
Other Features	ACPI power management, control of power-on mode for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection. Node Manager support	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, WOL	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology. 0°C – 60°C operating temperature	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology 0°C – 55°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* Supermicro chassis required for optimal functionality and performance

* Please check Tested Memory List on Supermicro website for compatibility

Embedded Communication
Intel® Quick Assist Technology
Flex ATX



Core™ i7/i5/i3
vPro, 12V DC input
mini-ITX



Core™ i7/i5/i3
Workstation & Desktop
uATX



Core™ i7/i5/i3
5 PCI slots, 8 COM ports
ATX



MODEL	X9SKV-1125 X9SKV-B915 X9SKV-1105	X9SCV-Q X9SCV-QV4	C7B75	C7H61-L
Processor	B915C Pentium (2C/15W), E3-1125C Xeon(4C/40W) or E3-1105CV2(4C/25W) Gladden FCBGA1284 CPU on board	2nd and 3rd Generation(-QV4) Intel® Core™ i7/i5/i3 & Celeron® processors in FCPGA988 socket	2nd and 3rd Generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processors in LGA 1155 Socket	2nd and 3rd Generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processors in LGA 1155 Socket
Chipset/System Bus	Intel® Communications Chipset 8903	Mobile Intel® QM67 Express Chipset	Intel® B75 Express Chipset	Intel® H61 Express Chipset
Form Factor	Flex ATX 9.0" x 7.2"	Mini-ITX 6.75"W x 6.75"H	Micro-ATX 9.6"W x 9.6"H	ATX 12"W x 9.6"H
Memory Capacity & Slots	Up to 32GB ECC SODIMM in 4 slots	Up to 16GB DDR3 1333/1066 MHz Non-ECC SODIMM, in 2 slots	Up to 32GB DDR3 1600/1333/1066 MHz Non-ECC UDIMM, in 4 slots	Up to 16GB of DDR3 1600/1333/1066 MHz Non-ECC UDIMM, in 2 slots
Expansion Slots	1 PCI-E 2.0 x8 Slot 7 or Slot 6 option by jumper setting	1 PCI-E 2.0 x16	1x PCI-E 3.0 x16 1x PCI-E 2.0 x4 (in x16) 1x PCI-E 2.0 x1 1x PCI 32-bit	1x PCI-E 3.0 x16 1x PCI-E 2.0 x1 5x PCI-32 slots
Onboard RAID Controller	Intel® AHCI controller for 2 SATA2 (3 Gbps) ports	2x SATA 3.0 (6Gb/s) ports w/ RAID 0,1 4x SATA 2.0 (3Gb/s) ports w/ RAID 0,1,5,10	1 SATA 3.0 (6Gb/s) 5 SATA 2.0 (3Gb/s)	2x SATA 3.0 (6Gb/s) 4x SATA 2.0 (3Gb/s) ports
Onboard LAN	Quad LAN with Intel® Ethernet Controller I350-AM4 Dual Intel® Ethernet Controller I210-AT, Total 6 GbE LAN port	Dual LAN with Intel® 82579LM & 82574L Gigabit Ethernet controller	Single LAN with Intel® 82579V Gigabit Ethernet controller	Dual LAN with Intel® 82579V & 82574L Gigabit Ethernet controller
Onboard VGA/ Display Ports	N/A	Intel® HD Graphics 3000 2x HDMI +VGA+LVDS	Intel® HD Graphic 4000 DVI-D+ VGA	Intel® HD Graphics 4000 HDMI 1.4+DisplayPort + VGA
USB Ports	5 USB 2.0 ports (2 rear + 2 via headers, 1 type A)	11x USB 2.0 ports(6 rear+4 via headers + 1 Type-A)	4x USB 3.0 ports (2 rear, 2 via headers) 10x USB 2.0 ports(4 rear, 6 via headers)	2x USB 3.0 ports (header) 10x USB 2.0 ports (6 rear+4 via headers)
Other Onboard I/O Devices	1 SATA DOM power connector 2 fast UART 16550 serial (1 rear, 1 header) ; TPM 1.2 Header Quad Port Programmable LAN Bypass	1x SATA DOM power connector TPM 1.2 onboard 2x serial ports PS/2 mouse & keyboard Audio header	S/PDIF out & 7.1 HD audio 1x SATA DOM power connector TPM 1.2 onboard 4 Fast UART 16550 Serial ports (2 rear, 2 header)	S/PDIF out & 7.1 HD audio 1x SATA DOM power connector TPM 1.2 header 8 Fast UART 16550 Serial Ports (2 with RS422/485) PS/2 mouse & keyboard
Manageability	SuperDoctor III Watch Dog	Watch Dog Super Doctor III AMT 7.0, vPro	Watch Dog SuperDoctor® III	Watch Dog SuperDoctor® III
Health Monitoring	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 3 4-pin fan headers with tachometer monitoring, supports systemmanagement utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
Thermal Control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors
Other Features	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection Quad Port Programmable LAN Bypass 0°C -60°C operating temperature	ACPI power management, control of power-on mode for recovery from AC power loss, Adaptive thermal monitor & CPU thermal trip support for processor protection, Intel® Rapid Storage Technology 4-pin 12V DC power connector (-QV4 only) to facilitate embedded system compact design and configuration 0°C - 55°C operating temperature	ACPI power management, WOL, control of power-on mode for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection. 0°C - 60°C operating temperature	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection 0°C - 60°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

WIO for 1U/3-AOC Solution

HPC & Virtualization

I/O Intensive Solution with 7x PCI-E Slots

High-Performance Storage with SAS3 & Dual 10GbE



MODEL	X10SRW-F	X10SRi-F	X10SRL-F	X10SRH-CLN4F
Processor	Intel® Xeon® Processor E5-2600/1600 v4/v3 (Haswell) product families supported; CPU TDP support Up to 145W	Intel® Xeon® Processor E5-2600/1600 v4/v3 (Haswell) product families supported; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600/1600 v4/v3 (Haswell) product families supported; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600/1600 v4/v3 (Haswell) product families supported; CPU TDP support up to 145W
Chipset/System Bus	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	Proprietary 8" x 13"	ATX 12" x 9.6"	ATX 12" x 9.6"	ATX 12" x 9.6"
Memory Capacity & Slots	DDR4-2133MHz in 8 DIMM slots Up to 512GB ECC LRDIMM Up to 256GB ECC RDIMM	Up to 512GB ECC LRDIMM, 256GB ECC RDIMM, DDR4-2133MHz in 8 DIMM slots	Up to 512GB ECC LRDIMM, 256GB ECC RDIMM, DDR4-2133MHz in 8 DIMM slots	Up to 512GB ECC LRDIMM, 256GB ECC RDIMM, DDR4-2133MHz in 8 DIMM slots
Expansion Slots	2x PCI-E 3.0 x16 (in WIO slot) 1x PCI-E 3.0 x8 (in x16 slot)	1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 (in x8) 2 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot) 1 PCI-E 2.0 x2 (in x8 slot)	2 PCI-E 3.0 x8 (in x16 slot) 2 PCI-E 3.0 x8 2 PCI-E 3.0 x4 (in x8) 1 PCI-E 2.0 x4 (in x8 slot)	1 PCI-E 3.0 x8 (in x16 slot) 1 PCI-E 3.0 x4 (in x8 slot) 2 PCI-E 3.0 x8 1 PCI-E 2.0 x2 (in x4 slot) 1 PCI-E 2.0 x4 (in x8 slot)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,10 LSI® 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10
Onboard LAN	Dual LAN with Intel® Ethernet Controller i350-AM2	Dual LAN with Intel® Ethernet Controller i350-AM2	Dual LAN with Intel® Ethernet Controller i210	Quad LAN with Intel® Ethernet Controller i350-AM4
Onboard VGA/ Display Ports	AST2400 VGA*	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A) 6 USB 2.0 ports (6 via headers)	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A) 8 USB 2.0 ports (2 rear + 6 via headers)	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A) 8 USB 2.0 ports (2 rear + 6 via headers)	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A) 8 USB 2.0 ports (2 rear + 6 via headers)
Other Onboard I/O Devices	2 ports SuperDOM 2 fast UART 16550 serial TPM module header 2 COM Ports (1 rear, 1 header) 1 eUSB header	2 ports SuperDOM 2 fast UART 16550 serial TPM module header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM 2 fast UART 16550 serial TPM module header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM 2 fast UART 16550 serial TPM module header 2 COM Ports (1 rear, 1 header)
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Health Monitoring	+12V, +3.3V, +5V, +5V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	5 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, UID, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, Node Manager Support, SDDC, UID, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, Node Manager Support, SDDC, UID, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, Node Manager Support, SDDC, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* Supernova chassis required for optimal functionality and performance

* Please check Tested Memory List on Supernova website for compatibility



Xeon® E5-2600
6 PCI-E 3.0 slots,
Dual 10GBase-T



7 PCI-E 3.0 slots
HW SAS 3.0



Workstation
12" x 13", 7.1 HD Audio
Thunderbolt AOC Support
Performance Optimized



LSI 3108 SAS3 HW RAID
Quad 10GbE LAN
24 DIMMs



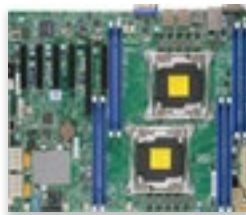
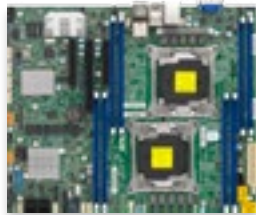
MODEL	X10DRi X10DRi-T	X10DRH-C(T) X10DRH-i(T)	X10DAi	X10DRC-T4+/LN4+ X10DRi-T4+/LN4+
Processor	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 160W	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset/System Bus	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	E. ATX 12" x 13"	E. ATX 12" x 13"	E. ATX 12" x 13"	E.E. ATX 13.68" x 13"
Memory Capacity & Slots	Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM, DDR4-2400MHz in 24 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 3 PCI-E 3.0 x8	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8	3 PCI-E 3.0 x16 2 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)	2 PCI-E 3.0 x16 3 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10; LSI® 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60 (-C SKU only)	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; LSI® 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60 SuperCap option support
Onboard LAN	Dual LAN with Intel® i350 Gigabit Ethernet Controllers -T: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers; -T: Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller	-T4+: Quad LAN with Intel® X540 10GBase-T Ethernet Controller; -LN4+: Quad LAN with Intel® i350 Gigabit Ethernet Controllers
Onboard VGA/ Display Ports	AST2400 VGA	AST2400 VGA	N/A	AST2400 VGA
USB Ports	5 USB 3.0 ports (2 rear + 2 via header + 1 Type A) 6 USB 2.0 ports (2 rear + 4 via headers)	5 USB 3.0 ports (2 rear + 2 via header + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)	6 USB 3.0 ports (4 rear + 2 via header) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	5 USB 3.0 ports (2 rear + 2 header + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM module header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM module header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM 7.1 HD Audio TPM module header Thunderbolt AOC Header	2 ports SuperDOM TPM module header 2 COM Ports (1 rear, 1 header)
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watchdog	NMI SuperDoctor® 5 Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watchdog
Health Monitoring	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, SDDC, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

12" x 10"
Cost-Effective
SAS3 HW RAID
Dual 10GbE,
Dual 1GbE

12" x 10
Cost-Effective
Dual 1GbE
SATA

12" x 13"
WIO, Dual 10GbE
SAS3 AOM

3 AOC in 1U
SAS3 AOM Support
4 Ports NVMe



MODEL	X10DRL-C(T)	X10DRL-I	X10DRW-i X10DRW-iT	X10DDW-i X10DDW-iN
Processor	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset/System Bus	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	ATX 12" x 10"	ATX 12" x 10"	Proprietary 12.3" x 13"	Proprietary 12.8" x 13.4"
Memory Capacity & Slots	Up to 512GB ECC LRDIMM, 256GB ECC RDIMM, DDR4-2133MHz in 8 DIMM slots	Up to 512GB ECC LRDIMM, 256GB ECC RDIMM, DDR4-2133MHz in 8 DIMM slots	Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2133MHz in 16 DIMM slots	Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2133MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x8 1 PCI-E 3.0 x16	3 PCI-E 3.0 x8 1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 (in x8 slot) 1 PCI-E 2.0 x4 (in x8 slot)	1 PCI-E 3.0 x32 Left Riser Slot 1 PCI-E 3.0 x16 Right Riser Slot 1 PCI-E 3.0 x16 for SAS3 AOM	1 PCI-E 3.0 x24 Left Riser Slot 1 PCI-E 3.0 x8 Right Riser Slot 1 PCI-E 3.0 x8 for SAS3 AOM
Onboard RAID Controller	Intel® C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SAS3 LSI® 3108 HW with 2G Cache controller for 8 SAS3 (12Gbs) ports; RAID 0,1,5,6,10,50,60 (for -CT only)	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i210 Gigabit Ethernet Controller Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller	-i: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -iT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers
Onboard VGA/ Display Ports	AST2400 VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	4 USB 3.0 ports (2 rear + 2 via header) 3 USB 2.0 ports (2 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via header) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	6 USB 3.0 ports (4 rear + 2 via header)	3 USB 3.0 ports (2 rear + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)
Other Onboard I/O Devices	2 ports SuperDOM 1 SATA DOM power connector TPM onboard header 1 COM port (1 header) SuperCAP connector (-C SKU only)	2 ports SuperDOM 1 SATA DOM power connector TPM Module header 2 COM ports (1 rear, 1 header)	2 ports SuperDOM TPM module header 1 COM port (1 header)	2 ports SuperDOM TPM module header 1 COM port (1 header) -iN: 4 ports internal NVMe
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watchdog
Health Monitoring	+12V, +3.3V, +5V, +5V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin, Overheat LED indication, PWM fan speed control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	8 4-pin, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

Small Form Factor Rack & Mini Tower Chassis Solutions



A2SAV-L

SC101S - 1.7" high

- Support Mini-ITX Motherboard (6.75" x 6.75")
- Support processors up to 25 watts (required two system fan)
- 1x internal 2.5" HDD
- VESA Mount bracket
- W 7.68" x D 7.68" x H 1.7" (195 x 195 x 43mm)
- Optional 60W



X11SSV-M4

SC101iF - 2.68" high

- Support Mini-ITX Motherboard (6.75" x 6.75")
- System Fan can support processors up to 45 watts
- Optional front accessible USB 2.0/3.0 and audio ports
- 1x internal 2.5" SATA Drive Bay
- VESA Mount bracket (MIS-D 75x75/100x100mm, MIS-E 100x200mm)
- Optional 60W or 84W power adapter



X10SDV

SC101F - 1.7" high

- Compact Desktop BOX Server PC
- Embedded Appliance Chassis
- Optimized for Server Mini-ITX Motherboard
- Support 1x 2.5 fixed drive
- Power Switch, Reset Button and LED Indicators



X10SDV

SCE300 - 1.7" high

- Compact Desktop 1U Server BOX PC
- Embedded Appliance Chassis
- Optimized for Flex-ATX and Mini-ITX Motherboard
- Support 2x 2.5 internal HDD or 1x Standard LP AOC
- Power Switch, Reset Button and LED Indicators



X11SSV-M4F

SC504-203B - 1U 9.8" depth

- Rear I/O 1U Compact Short Depth 9.8" Rackmount support Mini ITX Motherboard from SoC Avoton/Rangeley, 4th Gen Haswell Core i7, up to Xeon-D platform.
- 2x 3.5" or optional 4x 2.5" internal SATA2 Drive Bays
- 200W Gold Level power supply



X11SSV-M4F

SC505-203B - Front I/O 1U 9.8" depth

- Front I/O 1U Compact Short Depth 9.8" Rackmount support Mini ITX Motherboard from SoC Avoton/Rangeley, 4th Gen Haswell Core i7, up to Xeon-D platform.
- 2x 3.5" or optional 4x 2.5" internal SATA2 Drive Bays
- 200w Gold Level power supply



A2SAV-L

SC721TQ-250B - Mini Tower 4x Hot-swap 5" Drive Bays

- Support Hot-Swap 4 x 3.5" SATA HDD
- Support Two internal 2.5" SATA HDD
- One Low Profile expansion Slot
- One Slim Optical Drive (Optional)
- 250W Bronze Level power supply
- W11" x D8.27" x H9.45" (280x210x240mm)

Embedded Chassis Selection Guide



Fanless/IoT Gateway

- Fanless & robust design
- Low power consumption
- Wide-range working temperature & voltage



Compact Box System

- Building block design
- Commercial off-the-shelf with reliable product life cycle
- Easy deployment



Compact Mini Tower

- Support up to 80W TDP processor
- Hot-swap 3.5" HDD for RAID
- Low profile expansion slot for diversified application



1U Rack System

- 1U Rackmount with advanced cooling design
- Flexible I/O at front and rear
- Remote Management & FW upgrade via IPMI 2.0



IPC

- Rackmount with expansion capabilities
- Flexible Front I/O
- Up to 11 PCI-E Expansion slots

Front Bezel/LCD



Model	MCP-220-00095-0B	MCP-220-00095-0B	MCP-210-00007-01	SCPTFB-813LB	MCP-210-82502-0B	MCP-210-84201-0B
Feature	LCD display kits	Full-color OLED kit	Front bezel with LCD display	Front bezel with lock	Front bezel with lock	Front bezel with lock
Form Factor/Chassis	5.25" bay	3.5"HDD bay	SC813/813M series	SC813/813M series	SC825M series	SC842 series

Box PC Compact Enclosures

Mini-Tower



Model	SCE300	SC101F	SC101S	SC101i	SC101iF	SC721TQ-250B
Form Factor	Flex-ATX 9.0" x 7.25", Mini-ITX chassis	Mini-ITX 6.75" x 6.75"	1U Mini ITX Box PC	Mini-ITX Box PC	Mini-ITX Box PC	Mini Tower
Compatible Motherboard	Mini ITX	Mini-ITX	Mini ITX	Mini-ITX	Mini-ITX	Mini ITX
CPU Support	Single Intel® and AMD processors	Single Intel® and AMD processors	Single processor	Single processor	Single processor	Single processor
Drive Bays	2x 2.5" fixed drive bay	1x 2.5" fixed drive bay	1x Fixed 2.5" SATA	1x Fixed 2.5" SATA	1x Fixed 2.5" SATA	4 x 3.5" Hot-Swap SATA HDD 2x internal 2.5" SATA HDD
Expansion Slots			2x Mini PCI-E	1x Mini-PCI-E (optional)	1x Mini-PCI-E (optional)	1x low profile, half-length
Power Supply	60W / 84W Power Adapter	60W / 84W Power Adapter	60W Power Adapter	60W / 80W Power Adapter	60W / 84W Power Adapter	250W Flex ATX Multi-output Bronze Power Supply
Dimensions (WxDxH)	10" x 8.9" x 1.7" 254 x 226 x 43mm	7.6" x 8.9" x 1.7" 381 x 226 x 43mm	7.68" x 7.68" x 1.7" 195 x 195 x 43mm	7.68" x 7.68" x 2.68" 195 x 195 x 68mm	7.68" x 7.68" x 2.68" 195 x 195 x 68mm	11" x 8.27" x 9.45" 280 x 210 x 240mm

1U Rackmount Short-Depth Solutions



Model	SC504-203B	SC505-203B	SC510T-203B	SC510-203B	SC512L-260B-LCD
Form Factor	1U Rackmount	1U Rackmount Front I/O	1U Rackmount	1U Rackmount	1U Rackmount
Compatible Motherboard	Flex ATX, Mini-ITX	Flex ATX, Mini-ITX	MicroATX	MicroATX	ATX, MicroATX
CPU Support	Single processor	Single processor	Single processor	Single processor	Single processor
Drive Bays	2 x Fixed 3.5" or 4 x Fixed 2.5" SATA	2 x Fixed 3.5" or 4 x Fixed 2.5" SATA	2x hot-swap 2.5"SATA	Up to 4x Fixed 2.5" SATA*	1x Fixed 2.5" or 3.5" SATA
Expansion Slots	1x full-height, half-length	1x full-height, half-length	1x low profile, half-length	1x full-height, half-length**	1x full-height, half-length
Power Supply	200W High-Efficiency	200W High-efficiency	200W High-efficiency	200W Power Supply	260W Power Supply
Dimensions (WxDxH)	17.2"x9.8"x1.7" 437 x 249 x 43 mm	17.2"x9.8"x1.7" 437 x 249 x 43 mm	17.2"x11.3"x1.7" 437 x 287 x 43 mm	17.2"x9.8"x1.7" 437 x 249 x 43 mm	16.8"x14"x1.7" 437 x 356 x 43 mm

* When AOC area not occupied

** When HDD area not occupied

Short-Depth DP/UP Solutions

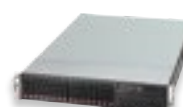
Short-Depth Front I/O redundant power supply



Model	SC512F-350B	SC514-R400W SC-514-R400C	SC514-505	SC515-R407
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
Compatible Motherboard	ATX, MicroATX	W/O E-ATX 12.3"x13"	E-ATX, ATX, MicroATX/W/O	ATX, Micro ATX/W/O
CPU Support	Single processors	Dual and single processors	Dual and single processors	Single processors
Drive Bays	2x Fixed 2.5" or 3.5" SATA	2 x Fixed 2.5" HDD	Up to 2x 2.5" fixed with bracket • SAS or enterprise SATA HDD	2x Fixed 2.5" HDD***
Expansion Slots	1x full-height, half-length	2 x full-height, 1 low profile 1 full height expansion slot	Up to 2x full-height	Up to 2x full-height
Power Supply	350W High-efficiency Power Supply 80 PLUS® Gold Certified	400W (1+1) Redundant SuperCompact Gold-level power supply with PMBus and I2C	500W High-efficiency Power Supply 80 PLUS® Platinum Certified	400W (1+1) Redundant SuperCompact Platinum-level power supply with PMBus and I2C
Dimensions (WxDxH)	17.2"x14.5"x1.7" 437 x 369 x 43 mm	17.2"x16.9"x1.7" 437 x 429 x 43 mm	17.2"x16.9"x1.7" 437 x 429 x 43 mm	17.2"x16.9"x1.7" 437 x 429 x 43 mm

*** Extra 2x 2.5" Fixed HDD with ATX MB or Extra 1x 3.5" or 2x2.5 Fixed HDD with W/O and Half Length Add on Card.

2U/3U IPC/Rack Solutions



Model	SC825MTQ-R700LPB	SC835BTQ-R1K28	SC842XTQ-R606B	SC213XAC-R1K05	SC825XTQC-R1K05
Form Factor	2U Rackmount	3U Rackmount	4U Rackmount	2U Rackmount	2U Rackmount
Compatible Motherboard	E-ATX, ATX, MicroATX	E-ATX, ATX, MicroATX	E-ATX, ATX, MicroATX ; max. motherboard size 15.2" x 13.2	E-ATX, ATX, MicroATX	E-ATX 12"x13", ATX 12"x10"
CPU Support	Dual and single processors	Dual and single processors	Dual and single processors	Dual and single processors	Dual and single processors
Drive Bays	3x 3.5" Hot-swap SAS / SATA	8x Hot-swap 3.5" SAS / SATA	5x Hot-swap 3.5" SAS / SATA	16x 2.5" hot-swap SAS/SATA drive bay	8x 3.5" hot-swap SAS/SATA drive bay with SGPIO and 2x 3.5" fixed drive bay
Expansion Slots	7 low-profile expansion slots	7x full-height, full-length	7x full-height, full-length and 4x full-height, half-length	11 low-profile expansion slot(s)	7 low-profile expansion slot(s)
Power Supply	700W Redundant High-Efficiency Power Supply	1280W Redundant Platinum Level Power Supply	600W Redundant High- Efficiency Power Supply 80 PLUS® Platinum Certified	2x 1U 800/1000W Redundant Power Supply 38mm Width	2x 1U 740W Redundant Platinum Power Supply W/ PMBus
Dimensions (WxDxH)	17.2"x17.7"x 3.5" 437x 450 x 89 mm	17.2" x 20.5" x 7" 437 x 521 x 178mm	17.2" x 20.5" x 7" 437 x 521 x 178mm	17.2" x 25.6" x 3.5" 437 x 650 x 89mm	17.2" x 25.5" x 3.5" 437 x 647 x 89mm

Embedded Motherboards

Supernova offers a full range of standard form factor motherboards that include Mini-ITX, Micro-ATX, ATX, and E-ATX. These long life cycle motherboards support single and dual Intel® processors by delivering the latest technology and the best performance. The proprietary form factor motherboard provides 11-slots with PCI-E 3.0 for extreme expansion.



SuperServer®

Supernova combines 20+ years of advanced engineering experience with efficient production and integration expertise. Supernova offers first-to-market embedded computing SuperServer's systems that are fully configured and provide one-stop solutions from design support to worldwide service.



IPC Rackmount Chassis

Supernova offers a full range of short depth 1U to 4U Rackmount chassis in various configuration and expansion capabilities. These chassis are designed to support embedded motherboards, such as Mini-ITX, Micro-ATX, ATX, and E-ATX and proprietary form factors. Features include high-efficiency power supplies, redundant power supplies, hot-swap accessories, storage and cooling options.



Supernova Ethernet Switch

The SSE-G2252 switches offer a full range of popular Ethernet features like Jumbo Frames, Link Aggregation, VLANs, Energy Efficient Ethernet, and a Power over Ethernet option. All of this is done in a compact 1U form factor for maximum flexibility in rack-mount installation.



Supernova mSATA

Based on the JEDEC mini-mSATA (MO300B Variation B) form factor, this Supernova storage device is engineered to deliver big performance in a small package. With built-in Wear-Leveling and ECC to ensure reliability of data transfers over time, this compact device is the perfect solution for holding the essential boot files of the operating system and the most used applications. Besides the Supernova mini-mSATA's compact size, you also have the speed of SATA3 (Up to 530MB/s Read and 185MB/s Write) and backward compatibility with previous SATA generations. The Supernova mini-mSATA is currently available in 64GB capacity and supports all Supernova SuperServer® products and solutions.



Supernova Trusted Platform Module (TPM)

The Supernova AOM-TPM9655V/H is a security hardware device on the system board that will hold computer generated keys for encryption. Supernova's outstanding hardware base solution ensures that the information such as keys, passwords and digital certificates stored within are made more secure from external software attacks and physical theft. With the handful of keys it stores, all cryptographic functions are performed on the chip. AOM-TPM9655V/H is an ideal tool for customers who are looking for an additional layer of security to their SuperServers.



LCD Screen Module

The Supernova LCD screen module features green LCD display screen. The module displays two backlit lines of data with 16 characters per line, and includes 6 front access keys (4-way direction keys and Enter/Cancel buttons), and USB interface with pin header to support up to 100cm of cable connected to a communications terminal.



Accessories

Supernova offers a wide variety of tested and certified easy-to-use accessories that are optimized for our server solutions. Standard accessories offering include networking and storage Add-on cards, OLED and LCD system status display kits, AC and DC high-efficiency power supply, battery backup power modules and Hot-swap Mobile Racks.



Supernova SATA DOM

Designed to be conveniently inserted into a server board SATA connector, this Supernova SATA DOM (Disk on Module) is a small SATA3 (6Gb/s) flash memory module that provides high-performance solid-state-storage capacity that simulates a hard disk drive (HDD). Supernova SATA DOMs are extremely reliable as they do not use any moving parts like the standard HDDs and are smaller and lighter with greatly improved performance, latency and power consumption. With its optimized design, the Supernova SATA DOM does not require a 5V power cable as do other SATA DOM products on the market. The Supernova SATA DOM is available in 16GB, 32GB, 64GB, and 128GB capacities and supports all Supernova SuperServer® products and solutions.



M.2 (Next Generation Form Factor, NGFF)

M.2 is a specification for internally mounted computer expansion cards and associated connectors. M.2's more flexible physical specification allows different module widths and lengths, and is paired with the availability of more advanced interfacing features such as PCI-E and NVMe protocols. Computer bus interfaces provided through the M.2 connector are PCI Express 3.0 (up to four lanes), and Serial ATA 3.0. The Supernova M.2-NVMe-SSD is "M-Keyed" and is available in the (2280) & (22110) size form factor incorporating the PCI-E 3.0 interface and the high performance NVMe protocol. Architected for high performance, low power and high reliability in the smallest M.2 form factor foot print.



Enterprise SSD – U.2 Form Factor

U.2 (SFF-8639) form factor leverages both PCI-E 3.0 x4 bus interface and 2.5" SATA/SAS mechanical dimensions. NVMe devices exist both standard-sized PCI-E and as 2.5-inch form-factor devices that provide a four-lane PCI Express interface through the U.2 connector. U.2 provides both ultra-high speed SSD performance and higher capacity SSD, while providing compatibility with standard SAS/SATA Drives that can be used in the same tray.



NVMe Express CPCI Express SSD Interface

NVMe Express, NVMe, or Non-Volatile Memory Host Controller Interface Specification (NVMHCI), is a specification for accessing solid-state drives (SSDs) attached through the PCI Express (PCI-E) bus.



Riser Cards

A riser card plugs into the motherboard and provides additional slots for adapter cards (AOC). AOC are oriented parallel to the motherboard and saves space within the system enclosure.



OEM Design-in Services

Supernova is a technology provider of embedded building blocks. We are the First to Market in embedded solutions for critical OEM applications and we provide a wide choice of off-the-shelf embedded building blocks - along with long product lifecycle, open standards, designed to high quality with world class support. Supernova adheres to rigorous design implementation, manufacturing standards and ISO standards to ensure that our products are produced with the highest quality and reliability.

ISO Certificates: ISO9001 / ISO14001 / ISO13485

About Supermicro

Supermicro Computer, Inc. or Supermicro® (NASDAQ: SMCI), a global leader in high-performance, high-efficiency server technology and innovation, is a premier provider of end-to-end green computing solutions for Enterprise IT, Data Center, Cloud Computing, Big Data, HPC and Embedded Systems worldwide. Founded in 1993 and headquartered in San Jose, California, Supermicro has been profitable every year since inception and has annual sales over \$2 billion. Products are sold through major distribution channels including VARs, SIs and OEMs worldwide, as well as through its direct sales force. Operations centers are located in Silicon Valley, the Netherlands, and a new 1 million+ square foot Science & Technology Park and advanced integration facility in Taiwan.

About Supermicro Embedded/IoT Solutions

Supermicro provides innovative and first-to-market technologies that are the building blocks for today's embedded computing platforms. Rapid growth in the embedded markets and open standards are driving the need for higher levels of product integration and optimization through network connectivity, remote management, mobile communication, expanded I/O, and device-to-device communications using space and power efficient configurations. We offer the widest choice of off-the-shelf building blocks to meet customer needs that are optimized to specific applications. Supermicro's high-performance embedded motherboards offer the most extensive selection in the industry, utilizing Intel® processors and chipsets that meet our customer's needs.

About Supermicro Global Services

As a leading provider of Building Block Solutions® for Data Centers, Supermicro is the premier choice for your professional support services- offering global coverage and highly efficient, on-time responsiveness to meet your hardware maintenance challenges. Supermicro's goals are to help you improve your service levels, reduce operating expenses through efficiency, while extending your overall infrastructure value through maximum uptime. With Supermicro SuperServices, you can count on results through these areas below:

- Flexible and customizable service level agreements (SLA)
- Highly efficient support systems and processes.
- Direct access to Level III services staff, field service engineers, and support operation management.
- Live, domestic call center responses, not an automated voice system
- Single point of contact for support in a complex environment

Supermicro's focus is to ensure that you protect your hardware investment by maintaining a high level of uptime. We promise each customer professional levels of responsiveness, accountability, collaboration and quality.





Embedded Building Block Solutions

Connecting the Intelligent World from Devices to the Cloud

Supermicro focuses on application optimization, product quality, availability, world wide support and total customer satisfaction. We are a leading innovator in high-performance, high-efficiency server technology and a premier provider of end-to-end server solutions for Enterprise IT, HPC, Big Data and Cloud Computing worldwide. Our server technology proficiency, highly reliable design philosophy, long product life cycle and cost competitiveness, have all been integrated into our embedded products. With our extensive knowledge and expertise in high-end server design and manufacturing, Supermicro offers the embedded market the highest quality products and solutions that meet even the most challenging embedded design needs.



Medical Imaging



Retail Sales



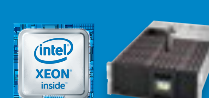
Communication and Networking



On Demand Video



Storage



Intelligent Transportation



Industrial Automation



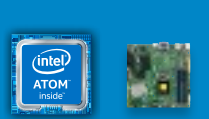
Digital Signage



Digital Surveillance



Test and Measurement



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