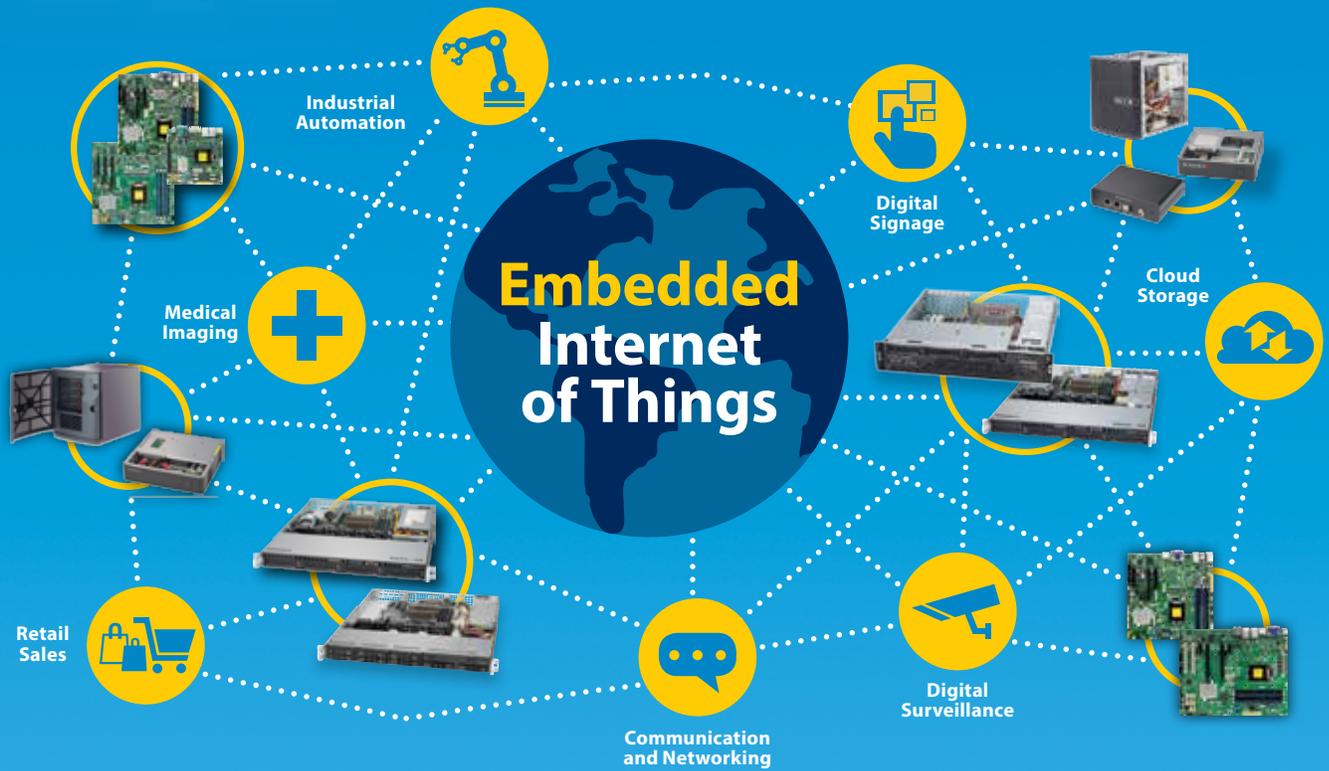# Embedded/IoT Solutions

Connecting the Intelligent World from Devices to the Cloud

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

Industrial Automation

Digital Signage

Cloud Storage

Medical Imaging

Embedded Internet of Things

Retail Sales

Communication and Networking

Digital Surveillance

Building Blocks

Server Appliances

Motherboards

www.supermicro.com/embedded

February 2016

Medical Imaging and Scanners

Compute Intensive Medical Workloads.Accelerate Image Processing applications with Supermicro Single and Dual Processors and large Memory Server Solutions.

X11SSZ-TLN4F   X10DRL-i   X10DRi(-T)   X10DAi X10DAC

Digital Security & Surveillance

Convergence of Physical Security and IT and Monitoring of Physical Premises. Supermicro Server Products and solutions can integrate Video Surveillance integration with IP Camera, Storage and Management, HD Video Processing and Video Analytics.

X11SSQ   SC825MTQ-R700LPB

Communication Infrastructure

Small Form factor SuperServer provide IT infrastructure for Data Center Edge Devices, Data Center Management Control and Network and Security Devices.

SYS-E200-9B   SYS-5018D-FN8T   SYS-5018D-FN4T

SYS-5017K-N6   SYS-5018A-FTN4   SYS-5018A-TN7B

Industrial Automation

Broad range of Factory and Building automation applications can rely on Supermicro building blocks to mix real-time and non-real-time OS and workloads

X10DRi   X11SAE   SC835BTQ-R1K28B

POS, Kiosk and Retail Applications

Deliver User Experience and Enhanced Intelligent Retail User Experience with digital promotions and targeted advertising using Compact, lower power Supermicro Embedded Servers.

SYS-E200-8B   SYS-1018L-MP   SYS-5028A-TN4   SYS-5028L-TN2

Cloud and Cold Storage

Supermicro servers based on Intel® Atom C2000 Family of processors provide new ways to optimize cloud infrastructure through Low Power solutions and better TCO.

SYS-5018A-MLHN4   SSG-5019D-2/4/8-AR12L   SYS-5029S-TN2   SYS-5028D-TN4T

Transportation and Security Control

Today's public transportation control systems utilize high performance computing to handle complex traffic patterns. Traffic monitors and controllers can be found in traffic signals, license plate recognition, toll booths, e-police and several transportation management systems. These compact yet high performance systems are used for pattern recognition, matching and analysis of complex data and images. Supermicro provides a full range of IPC Rackmount solutions that deliver high-performance features that can readily handle acquisition and analysis of complex data.

SYS-1019-M2   SC842TQ-665B

Digital Content Management and Distribution

Explosion in multimedia video, audio and image files on the web has created a new industry that provides live streaming, audio/video/images on demand and search analytics. To tackle this large problem, Supermicro has introduced a one-of-a-kind server solution that incorporate high-performance Dual Intel® Xeon Processors, extreme I/O expansion with FH/FL 11 PCI-E Slots, 5 Hot Swap HDD and Dual GbE LAN all in a single 4U Rackmount system. The converged high density compute, storage and network server is optimized for data management, analytics and distribution.

SC825MTQ-R700LPB   SYS-6048R-TXR

Compact Network Appliance for Network Access Control(NAC), Network Video Recorder(NVR)

X11SBA-LN4F

4xGbE, 1xIPMI, 1xHDMI, 1xDP,1xCOM

SYS-E200-9B (Braswell)

- Intel® Pentium® Processor N3700, Quad-Core (6W, 4C); Socket FCBGA 1170
- System-on-Chip
- I/O ports: 4x GbE, 1x HDMI, 1x Display Port, 1x VGA, 1x serial port
- 1x IPMI 2.0 w/ dedicated Port & KVM
- 1x 2.5" internal drive bay
- Up to 8GB 1600MHz DDR3 Non-ECC SO-DIMM in 2 socket
- 1x SuperDOM, 1x mSATA slot, 1x TPM 1.2 header
- 2x USB 3.0 & 2x USB 2.0 (rear) ports
- 1x 4cm high performance PWM fan
- 60W DC power adapter

Digital Signage   Indoor Kiosk   Retail Sales

Compact Mini-Tower for Backup Appliance, Network-Attached Storage(NSA), Cloud Video Surveillance

**X11SSV-Q
Q170 Chipset
M.2 Socket**

**vPro, 5xSATA3, 3 Independent displays,
1x Expansion slot**

SYS-5029S-TN2 (6th Generation Core)

- Intel® 6th Generation Core™ i7/i5/i3 series, Intel® Celeron® Intel® Pentium®, LGA1151 Socket H4
- 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)
- Remote management via vPro technology
- 2x Gigabit LAN ports
- DP, HDMI and DVI-I: 3 independent displays
- Embedded long life
- Quiet Operation

Database
Processing &
Storage

High
Performance
NAS Servers

Security
Appliance and
Video
Surveillance

Web Server for Small
and Medium
Business

Digital Security and Surveillance Appliance Server

- **Campus and Building Perimeter Security • Airport Biometric and Baggage Scanner**
- **3x Independent Display Ports - 2x DP and 1x DVI-I**
- **Supports Intel® AMT with Intel® vPro™ technology**

**X11SSZ-F
C236 Chipset**

SYS-5019S-M2

- Intel® 6th Generation Core™ i7/i5/i3 series, Intel® Xeon E3-1200 v5, Intel® Celeron®, Intel® Pentium®, LGA1151 Socket H4 supported
- Supports 6th Gen Intel® Core i7, i5, i3, Xeon E3-1200 v5 in 1U
- 2x DP, 1 DVI-I, total 3x independent display
- 4x 3.5" SATA3/SAS3 ready hot-swap drive bays
- Intel® vPro™ and AMT
- 2x Gigabit LAN
- 1x PCI Express 3.0 x16 FH
- Intel® C236 chipset
- Up to 4 DIMMs, 64 GB of 2133MHz DDR4 ECC/non-ECC UDIMM

Digital Surveillance\
Security

Appliance Server

Secure Storage

Industrial Automation & Control

Compact Short Depth 1U with 6th Gen Core i7 supporting Full Height Full Length Card
Optionally Installed Redundant Power Supplies or Battery Backup Solution

**PWS-407P-1R
Power Supply**

**PWS-206B-1R
Battery Backup Unit**

**X11SSZ-QF
Q170 Chipset**

SYS-1019S-M2

- Intel® 6th Generation Core™ i7/i5/i3 series, Intel® Celeron® Intel® Pentium®, LGA1151 Socket H4 supported
- Remote management via IPMI or vPro
- 2x Gigabit LAN ports
- 2x DP, 1 DVI-I, total 3x independent display
- Full Height and Full Length add on card support
- Embedded long life
- Intel® Q170 chipset
- Up to 4 DIMMs, 64 GB of 2133MHz DDR4 ECC UDIMM
- 1 PCI-E 3.0 x16 (in x16 slot)
- 400W Platinum Level Power Supply + Optional 2nd redundant 400W Power supply or Battery Backup Unit

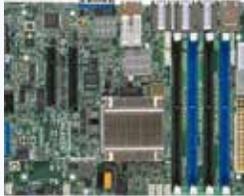Industrial Automation & Control

Military Compact Server

VOIP and Network Appliance

Medical Applications

**vPro, IPMI, Full Height and
Full Length Expansion slot**

Scalable Communications and Network Infrastructure with Intel® Xeon® D-1518, 4 Core, 8 Threads, 6 x 1 GbE and Dual 10 GbE QSFP+

X10SDV-TP8F
9" X 7.25" Flex ATX

SYS-5018D-FN8T(Xeon D-1500)

Xeon D-1518 SoC Compact 1U Networking Appliance

- Xeon D D-1518 SoC 4 Core, 8 Threads, 35W, 2.2GHz
- VT-d/x, TXT, AES-NI, Xeon RAS, Built in 10GbE
- 128GB up to 2133MHz DDR4 RDIMM
- IPMI2.0 with KVM Dedicated port
- 8 LAN ports with Dual 10 GbE SFP+
- Applications: Compact Network Appliance Firewall, Software Defined WAN, On-premises Server
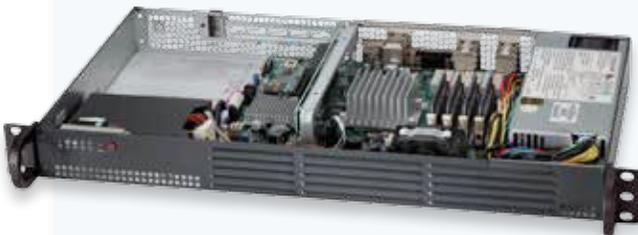- W17.2" x D9.8" x H1.7" (437x249x43mm)

| Web Hosting | Cold Storage | Networking / Communications | Security |

Intel® Platinum® B915, Communication Chipset 8903CC with Programmable LAN Bypass

SYS-5017K-N6 (Gladden/ Cave Creek)

- Intel® Pentium® B915C (Gladden) processor (2C, 15W, 1.5 GHz. 3M)
- Intel® Communications Chipset 8903CC (Cave Creek)
- Up to 32GB DDR3 ECC 1333MHz ECC SODIMM in 4 sockets
- Intel® i350-AM4 ; Quad Port Programmable GbE LAN Bypass
- 2x Intel® i210T; Dual Port GbE LAN
- 1x 3.5" fixed SATA2 (option 2x 2.5"), Disk-on-module (DOM) power
- 1x PCI-E 2.0 x8, 2x serial (1 rear, 1 header)
- 5x USB 2.0 ports (2 rear, 4 via header, 1 type A), eUSB/UDM support
- 200W Power Supply

Integrated Intel® Quick Assist Technology providing hardware acceleration for improved cryptographic and compression performance.

Intel®Data Plane Development Kit for Packet Processing

| Networking / Communications | Security Appliance |

Small Form Factor Chassis Solutions

SC101S
- 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

SC101i
- Support Mini-ITX Motherboard (6.75" x 6.75")
- System Fan can support processors up to 45 watts
- Front accessible USB 2.0 and audio ports
- 1x internal 2.5" SATA Drive Bay
- VESA Mount bracket (MIS-D 75x75/100x100mm, MIS-E 100x200mm)
- W 7.68" x D 7.68" x H 2.68" (195 x 195 x 68 mm)
- Optional 60W or 80W power adapter

SC504-203B
- 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

SC505-203B
- 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

SC721TQ-250B
- 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 and Industrial Server-Grade Mini ITX Solutions

A1SAi-2750F	A1SRi-2758F	X10SDV-F/TLN4F	X10SLV	X10SLV-Q
Intel® Atom™ C2750 8-Core Avoton SoC	Intel® Atom™ C2758 8-Core Rangeley SoC	Intel® Xeon™ D-1541 8-Core Broadwell-DE	Intel® 4th Gen. Core i7 H81 Chipset	Intel® 4th Gen. Core i7 Q87 Chipset

X11SBA-F/LN4F	X10SBA/-L	X9SPV-M4/-3QE/-3UE	X9SCV-QV4	X11SSV-Q
Intel® Pentium N3700 4-Core Braswell SoC	Intel® Celeron J1900 4-Core Bay Trail SoC	Intel® 3rd Gen. Core i7, ECC QM77 Chipset	Intel® 3rd Gen. Core i7 QM67 Chipset	Intel® 6th Gen. Core i7 vPro, Q170 Chipset

New Intel® Xeon® D(Broadwell-DE) High Core, High Performance, Low Power, SoC Solutions

X10SDV-TLN4F
8Core, 45W
Active Heatsink

X10SDV-8C-TLN4F
8Core, 45W
Passive Heatsink

SYS-5028D-TN4T

Embedded, Compact Mini Tower
- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W
- 4x 3.5" Hot-swap drive bays; 2x 2.5" fixed drive bays
- 1x PCI-E 3.0 x16 (LP), 1x M.2 PCI-E 3.0 x4, M Key 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
- 250W Flex ATX Multi-output Bronze Power Supply

SYS-5018D-FN4T

Front I/O, Space-efficient, compact design
- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W
- 1 x 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

SYS-5018D-FN8T
- Intel® Xeon® processor D-1518, 4-Core, 8 Threads 35W
- System-on-Chip, Single socket FCBGA 1667
- 2 x 10 GbE SFP+ with SoC D-1518
- 4 x 1 GbE with I350-AM4, 2 x 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

Web Hosting   Cold Storage   Networking / Communications   Security

Embedded and Industrial Server Broadwell-DE Solutions

X10SDV-16C+-TLN4F	X10SDV-12C-TLN4F	X10SDV-6C-TLN4F	X10SDV-6C+-TLN4F	X10SDV-4C-TLN4F	X10SDV-TP8F
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 6x 1GbE , 2x 10GbE SFP+*

X10SDV-TLN4F	X10SDV-8C-TLN4F	X10SDV-F	X10SDV-8C+-LN2F	X10SDV-4C-TLN2F	X10SDV-7TP8F
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, 6x 1GbE, 2x 10GbE SFP+, 22x SATA3*

High Core Atom™ Avoton Embedded Server Appliances

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

- 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
- 1 x PCI-E 2.0 x8 Slot, 4 x USB3.0, 2 x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Gold Level Low-Noise Power Supply

SYS-5018A-TN4 (1U, Less than 10")

- Intel® Atom™ C2750 processor-based SoC, FCBGA 1283 8 cores, 2.4GHz, 20W (Avoton)
- Up to 4 DIMMs, 64GB of DDR3 ECC SODIMM up to 1600MHz
- 2x 3.5" or optional 4 x 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*

Small Form Factor Head and Control Node Server Solutions

SYS-5017A-EP

- Intel® Atom™ N2800 Processor, FCBGA 559, 2C, 6.5W
- Intel® NM10 Express Chipset
- Up to 4GB 1066MHz DDR3 non-ECC SO-DIMMs
- 2x 3.5" or optional 2x 2.5" internal SATA2 Drive Bays
- 1x PCI 32-bit 5V on riser, 1x mini PCI-E
- Intel® 82574L; 2x GbE LAN ports
- HDMI, DisplayPort, VGA Port, 2x USB 3.0 ports
- 200W Power Supply
- Disk-on-module (DOM) power connector

SYS-5017P-TLN4F/TF

- 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

Communication   *Security*

Low-Power 4-Core Atom™ Avoton SoC Server Appliances

SYS-5018A-MLTN4
- 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 4 x 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

SYS-5018A-MLHN4
- 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*

High Core Atom™ Rangeley SoC Networking and Security Server Appliances

SYS-5018A-TN7B
- Intel® Atom processor C2758, 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; Support up to 3x system fans
- 200W Multi-output power supply

SYS-5018A-MHN4
- 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*

X11 Skylake Xeon® E3-1200 v5 Single Processor System Solutions

SYS-5019S-MN4	SYS-5019S-MT	SYS-1019S-MC0T	SYS-5019S-WR

Network-Centric	Entry Caching Appliance	Entry Level Storage	Flexible I/O
813MFTQC-350CB	813MFTQC-350CB	113MFAC2-341CB	815TQC-R504WB
X11SSH-LN4F	X11SSH-TF	X11SSH-CTF	X11SSW-F

SYS-5019S-L	SYS-5019S-ML	SYS-5019S-M	SYS-5019S-MR

Entry Appliance	Entry Appliance	Cloud, Hosting	Cloud, Hosting
510-203B	512F-350B1	813MFTQC-350CB	813MFTQC-R407CB
X11SSL-F	X11SSH-F	X11SSH-F	X11SSH-F

X11 Skylake Xeon® E3-1200 v5 Motherboards

| 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-E-32 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® E5-2600 v3/v4 Dual Processor System Solutions
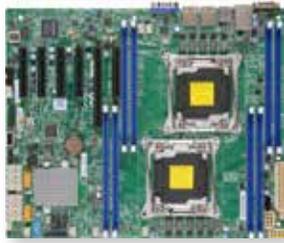
X10DRL-i
- Dual E5-2600 v3 CPUs up to 145W
- 8 DIMM DDR4 2133MT/s (Up to 512GB)
- 1 PCI-E 3.0 x16 + 3 PCI-E 3.0 x8 + 1 PCI-E 3.0 x4 in x8 + 1 PCI-E 2.0 x4 in x8
- 10 SATA 3.0 HDD/SSD ports
- 4 USB3.0, 2 SuperDOM, TPM support
- 12" x 10" ATX Form Factor

SC514-505
16.9" Compact Short-Depth Chassis for X10 DP Solutions
- 500W Platinum Level High-efficiency Power Supply
- 1x 3.5" or 4 x 2.5" HDD
- 4 x 40x56mm PWM fans
- 2 Full-Height I/O Expansion slot

Medical Applications

Embedded and Industrial-Grade Dual Processor Solutions

X10DRL-i	X10DAi/C	X10DRH-C/i(T)	X10DRH-C/ILN4	X10DRL-CT	X10DDW-i
Dual E5-2600 v3 CPUs 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
3x AOC in 1U, SAS3 AOM support, DCO	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

Fully Converged, Scalable Solutions for the Intelligent edge with Intel® Xeon® D 8-Core, SFP+10GbE, 22 Storage

X10SDV-7TP8F

- Intel® Xeon® processor D-1587, Single socket FCBGA 1667; 16-core, 32 Threads, 65W
- System on Chip
- Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- 16x SATA3/SAS2 HDD/SSD ports via LSI 2116 controller
- 4x SATA3 HDD/SSD ports
- 1x M.2 (M-key 2242/2260/2280), 1x mini-PCI-E with mSATA support
- 2x PCI-E 3.0 x8 slot
- 8-pin +12V DC/ATX power input
- 2x 10GbE SFP+ (SoC) + 6x 1GbE (Intel® i350-AM4/i210-AT)

X10SDV-7TP4F
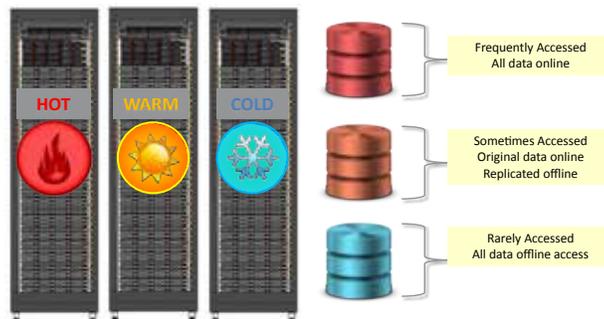
- Intel® Xeon® processor D-1537, Single socket FCBGA 1667; 8-core, 16 Threads, 35W
- 16x SATA3/SAS2 HDD/SSD ports via LSI 2116 controller
- 4x SATA3 HDD/SSD ports
- 1x M.2 (M-key 2242/2280), 1x mini-PCI-E with mSATA support
- 2x PCI-E 3.0 x8 slot
- 8-pin +12V DC/ATX power input
- 2x 10GbE SFP+ (SoC) + 2x 1GbE (Intel® i210-AT)

X10SDV-TP8F

- Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4-core, 8 Threads, 35W
- System on Chip
- Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- 4x SATA3 HDD/SSD ports
- 1x M.2 (M-key 2242/2260/2280), 1x mini-PCI-E with mSATA support
- 2x PCI-E 3.0 x8 slot
- 8-pin +12V DC/ATX power input
- 2x 10GbE SFP+ (SoC) + 6x 1GbE (Intel® i350-AM4/i210-AT)

Cloud, Warm & Cold Storage Server Solution

| HOT | WARM | COLD |

Frequently Accessed
All data online

Sometimes Accessed
Original data online
Replicated offline

Rarely Accessed
All data offline access

1U Cloud and Warm Storage Servers

COLD	COLD	WARM
SSG-5018D2-AR12L	SSG-5018D4-AR12L	SSG-5018D8-AR12L

SSG-5018D2/4/8-AR12L

- Intel® Xeon® D 1518/1537, Pentium® D 1508, System On Chip chipset
- 1 PCI-E 3.0 x8 slot
- 12x 3.5" Hot-swap HDD bays in 1U, SATADOM, mSATA, M.2 2242/2280/22110 for OS drive
- IPMI 2.0 with dedicated LAN
- LSI IT mode 16 ports controller for SW RAID
- Dual GbE LAN port, Dual 10G SFP+ LAN port
- Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM
- 400W Redundant High-efficiency power supplies
- 1U 17.2" (437mm) x 1.7" (43mm) x 32" (813mm)

High Capacity SuperStorage Solutions

New!

Coming Soon!

SSG-6048R-E1CR60N / SSG-6048R-E1CR60L

- Dual Intel® Xeon® E5-2600 v3 (Socket R) Server
- 60x Hot-Swap 3.5" SAS3/SATA3 bays (12Gb/sec)
- Hardware RAID – Avago SAS3108 (0, 1, 5, 6, 10, 50, 60) (**SSG-6048R-E1CR60N**)
- IT mode Avago 3008 (**SSG-6048R-E1CR60L**)
- Dual JBOD expansion ports
- 24x DIMM Slots (DDR4)
- SIOM for flexible networking options
- IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN
- Front 3.5" LCD display

SSG-6048R-E1CR90L

- Dual Intel® Xeon® E5-2600 v3 (Socket R) w/ up to 512GB in 8 DIMM slots
- 4U 90x Hot-Swap 3.5" 12Gb/s SAS3/SATA3 bays with Single Expander
- Chassis depth: 38.2"
- 2x Rear Hot-Swap 2.5" HDD
- 4x 1000W (N+1) Titanium Redundant Power Supply
- 5x 8080 Hot-swap cooling modules
- Flexible configure up to 2 zone zoning
- On-board 4x 10Gbps SPF+
- Slide Rails included
- Cable management arm for hot-swap access
- Optional SIOM module (4 x 10Gbps Base-T or SPF+)

Rear View

High Capacity Storage Enclosures (JBOD Solutions)

Coming Soon!

SC946SE1C-R2K05JBOD / SC946SE2C-R2K05JBOD

- 4U High Capacity Short-Depth (30.2") Storage Enclosure
- 60x 3.5" SAS3 HDDs with 12Gb/s Hot-swappable HDD/SSD
- Dual Expander with 8x Mini-SAS HD (or Single Expander with 4 x Mini-SAS HD) ports for External Cascading Expander Combination for high performance, high availability or high redundancy applications
- 1x IPMI port for Remote Power on/off and system monitoring
- 2000W (1+1) 96% efficient Digital Titanium Level Redundant Power Supplies
- High Capacity Storage Application
- Corp DB/File, Data Warehouse
- iSCSI solution, Media/Stream Server, Video-on-Demand, Security server

90x 3.5"
SAS3 Top-Loading Hot-Swap Drive Bays in 4U
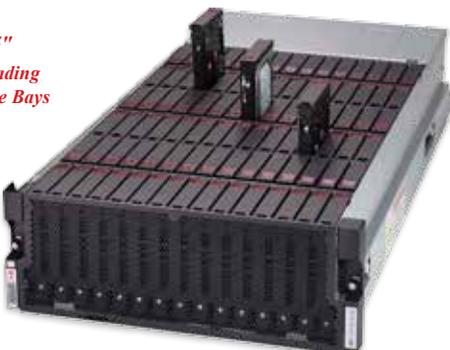
SC946ED-R2KJBOD

- 4U Extremely High Density High Capacity Storage Enclosure
- Support 90x 3.5" or 2.5" 12Gb/s SAS3 Hot-swappable HDD/SSD
- Dual Hot-swappable Expander Modules
- Redundant BMC for Remote System Power on/off and system monitoring
- Tool-less HDD tray with LED indicator & 2.5" SSD converter
- Flexible to configure up to 4 Hosts with HDD Zoning
- Individual HDD power cycling
- SCSI Enclosure Services (SES 3.0) compliant
- Slide Rail and Cable Management Arm Kit included

2U Rackmount IPC Solutions

X11SSQ

- Single socket H4 (LGA 1151) supports
- Intel® 6th Gen. Core i7/i5/i3 series,
- Intel® Celeron® and Intel® Pentium® processors
- Intel® Q170 Express chipset
- Up to 64GB DDR4 2133MHz Non-ECC Unbuffered UDIMM; 4 DIMM slots
- 1x GbE LAN w/ Intel® i210-AT, 1x GbE LAN w/ Intel® PHY i219LM

- 1 PCI-E 3.0 x16, 2 PCI-E 3.0 x4, 1 PCI-E 3.0 x1, M.2 PCI-E x2 M Key 2242/2280, PCI-E x4 w/ open slots
- 6x SATA3 (6Gbps) via Q170; RAID 0, 1, 5, 10 Intel® RST

SC825MTQ-R700LPB   2U

- 700W Redundant Power Supply
- 3x 3.5" Hot-swap Drive Bays
- 7x Low-profile Expansion Slots
- 4x 4cm Counter-Rotating Fans

MCP-210-82502-0B
Front Bezel Cover, Black

3U Rackmount IPC Solutions

SYS-6038R-TXR   3U

- Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
- Up to 1TB ECC DDR4 2133MHz; 16x DIMM slots
- 10x PCI-E 3.0 x8 (FHFL) slots, 1x PCI-E 2.0 x4 (in x8) slot
- Intel® i350 Dual port Gigabit Ethernet
- 8x 3.5" Hot-swap drive bays, 2x 5.25" drive bays
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
- 3x middle fans & 1x rear exhaust fan
- 980W Redundant Power Supplies Platinum Level (94%)

4U Rackmount IPC Solutions

X10DRX (Dual Socket)

- Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
- Intel® C612 chipset
- Up to 1TB ECC DDR4 2133MHz; 16x DIMM slots
- Expansion slots: 10 PCI-E 3.0 x8 and 1 PCI-E 2.0 x4 (in x8) slot

SYS-6048R-TXR

- Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
- Up to 1TB ECC DDR4 2133MHz; 16x DIMM slots
- 10x PCI-E 3.0 x8 (FHFL) slots, 1x PCI-E 2.0 x4 (in x8) slot
- Intel® i350 Dual port Gigabit Ethernet
- 5x 3.5" Hot-swap HDD Bays
- 3x 5.25" Peripheral Drive Bays
- 600W Redundant Power Supplies Platinum Level (94%)

MCP-210-84201-0B
Front Bezel Cover, Black

Extreme I/O with 11 PCI-E slots ideal for use in Command and Control, Security, Test Equipment, Medical, or Industrial Automation applications

Short Depth IPC and Mini Tower Server Solution

New!

SYS-1019S-M2

- Single socket H4 (LGA 1151) supports Intel® 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, vPro supported
- 2x DP, 1 DVI-I, Intel® HD Graphics, with 3x independent displays, VGA for BMC AST2400
- 400W Platinum Level Power Supply
- W17.2" x D16.9" x H1.7" (437x429x43mm)

SYS-5029S-TN2

- Single socket H4 (LGA 1151) supports Intel® 6th Gen. Core i7/i5/i3 series, Intel® Celeron® and Intel® Pentium® processors
- 4x 3.5" Hot-swap drive bays, 2x 2.5" fixed drive bays, support total of 5 hard drives
- 1x PCI-E 3.0 x16 slot, 1x Mini-PCI-E with mSATA support, 1x M.2 (M key 2242/2280 PCI-E 3.0 x4)
- Up to 32GB Unbuffered Non-ECC UDIMM DDR4 2133MHz; 2 DIMM slots
- 1x GbE LAN with Intel® i210-AT; 1x GbE LAN with Intel® PHY i219LM
- HDMI, DP (Display Port), DVI-I, 3x Independent Displays
- 250W Flex ATX Multi-output Bronze Power Supply
- 3 Independent Displays, M.2 slot, vPro
- W11" x D8.27" x H9.45" (280x210x240mm)

SYS-5028D-TN4T

- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W
- 4x 3.5" Hot-swap drive bays; 2x 2.5" fixed drive bays
- 1x PCI-E 3.0 x16 (LP), 1x M.2 PCI-E 3.0 x4, M Key 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
- 250W Flex ATX Multi-output Bronze Power Supply
- W11" x D8.27" x H9.45" (280x210x240mm)

X10SDV-TLN4F
8Core, 45W
Active Heatsink

SYS-5028L-TN2

- Single socket H3 (LGA 1150) supports, Intel® Xeon® E3-1200 v3, 4th gen. Core i7/i5/i3, Pentium, Celeron processors
- 4x 3.5" Hot-swap drive bays, 2x 2.5" fixed drive bays
- 1x PCI-E 3.0 x16 slot, 1x Mini-PCI-E, with mSATA support
- Up to 16GB DDR3 non-ECC, 1600MHz SODIMM in 2 sockets
- Dual Gigabit Ethernet LAN ports
- Video: 1x Display Port, 1x HDMI, 1x DVI-I, 3x Independent Displays
- 250W Flex ATX Multi-output Bronze Power Supply
- W11" x D8.27" x H9.45" (280x210x240mm)

SYS-5028A-TN4

- Intel® Atom processor C2758F, SoC, FCBGA 1283, 20W 8-Core
- 4x 3.5" Hot-swap SATA Trays; 2x 2.5" internal HDD bays
- 1x PCI-E 2.0 x8 slot
- Up to 64GB ECC SODIMM 4 DIMM slots
- Quad LAN with Intel® C2000 SoC
- 250W Flex ATX Multi-output Bronze Power Supply
- W11" x D8.27" x H9.45" (280x210x240mm)

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.

Ingredients of the Intel® IoT Gateway

Intel	Scalable architecture
Wind River*	Integrated operating system
McAfee	End-to-end security

SYS-E200-9B

- 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

-Compact Embedded Mini ITX Box

SYS-E100-8Q

- 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,

- Fanless Compact Embedded System - Long Life Cycle Support

- Smart Building/Home Gateway - Retail store or Warehouse Hub

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

Compliance certification ready for FCC/IC/CE, PTCRB 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
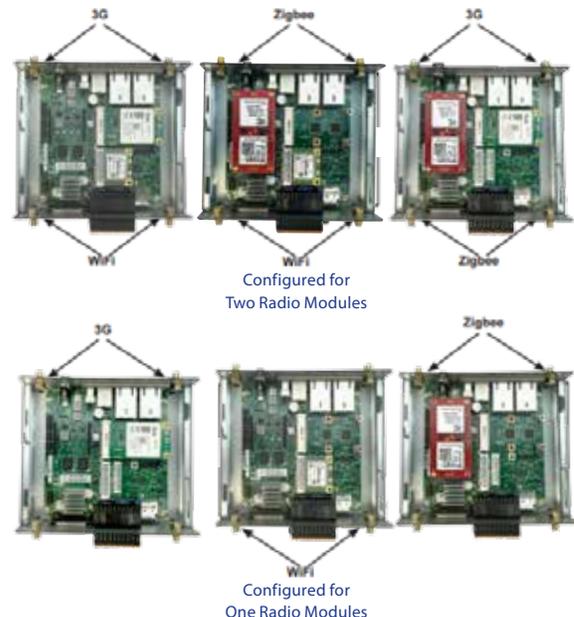
Compact Box PC & IoT Gateway Solutions

SYS-1018L-MP

- Intel® 4th gen. Core i7/i5/i3, Pentium,Celeron processors
- Intel® H81 Express Chipset
- 1x 2.5" internal HDD support
- Up to 16GB DDR3 non-ECC 1600MHz SODIMM in 2 sockets
- 1x Mini-PCI-E (Full and Half card with mSATA support)
- 2x GbE, 1x DVI-I, 1x HDMI,1x Display Port, 2x COM, and 1x Audio

- 4x USB 2.0 ports, 2x USB 3.0 ports
- 1x SATA DOM support
- 80W DC power adapter
- Dimension : 7.68"x 7.68" x 2.68" (195x195x68mm)

Compact Embedded System- Long Life Cycle Support-
Security Appliance, Surveillance- Digital Signage,
Indoor Kiosk- Video processing, streaming

Indoor Kiosk

SYS-1017A-MP

- Intel® Atom™ N2800 (6.5W, 1.86GHz)
- Intel® NM10 Express Chipset
- 1x 2.5" internal HDD support
- Up to 4GB 1066MHz DDR3 Non-ECC SO-DIMM in 2 sockets
- 1x Mini-PCI-E (compatible with mSATA devices)

- 1x VGA, 1x HDMI, 1x Display Port
- Intel® 82574L Dual Port GbE LAN
- 2x USB 3.0 and 4x USB 2.0 ports
- 60W DC power adapter
- Dimension : 7.68"x 7.68" x 2.68" (195x195x68mm)

- Compact Embedded System
- Low Power Dual Core Atom CPU
- Long Life Cycle Support

Retail Sales

SYS-E200-9B

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

- 1x IPMI 2.0 w/ dedicated Port & KVM
- 2x USB 3.0 & 2x USB 2.0 (rear) ports
- 1x 4cm high performance PWM fan
- 60W DC power adapter

Digital Signage

SYS-E200-8B

- Intel® Celeron™ J1900 (10W, 2.0 -2.42GHz , 4 Cores), System-on-Chip
- 1x 2.5"internal HDD/SSD support (no exceed 9.5mm thickness for the HDD selection)
- Up to 8GB 1333MHz DDR3 Non-ECC SO-DIMM in 2 sockets
- 1x Mini-PCI-E slot, 1x mSATA slot
- 1x VGA, 1x HDMI, 1x Display Port

- Dual Port GbE LAN
- 1x USB 3.0 and 1x USB 2.0 ports
- 60W DC power adapter
- Dimension : 7.68"x 7.68" x 1.7" (195x195x43mm)

- Compact 1U Height Mini ITX BOX PC
- Long Life Cycle Support - Digital Signage

Digital Signage

Xeon® E3-1200 v5 Datacenter Optimized uATX

Core™ i7/i5/i3 vPro AMT IPMI Embedded 1U Optimized Core i7 uATX

Xeon® E3-1200 v5 Core™ i7/i5/i3 vPro AMT IPMI Dual 10GbE Embedded 1U Optimized uATX

MODEL	X11SSH-F X11SSH-LN4F	X11SSZ-QF	X11SSZ-F X11SSZ-TLN4F
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® 6th 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
Chipset/System Bus	Intel® C236	Intel® Q170	Intel® C236
Form Factor	micoATX 9.6" x 9.6"	uATX 9.6" x 9.6"	uATX 9.6" x 9.6"
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
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)
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
Onboard LAN	-F: Dual LAN with Intel® Ethernet Controller i210-AT -LN4F: Quad LAN with Intel® Ethernet Controller i210-AT	Single LAN with Intel® PHY i219LM Single LAN with Intel® Ethernet Controller i210-AT	Dual 10GbE LAN with Intel® X550 Single LAN with Intel® PHY i219LM Single LAN with Intel® Ethernet Controller i210-AT
Onboard VGA	1 VGA (from Aspeed AST2400 BMC)	2 DP (DisplayPort) 1 DVI-I Intel® HD Graphics 530 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
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)
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)
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, NMI, SuperDoctor® 5 vPro, Watchdog	IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SuperDoctor® 5 vPro, 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
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
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
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

vPro AMT mini-ITX *vPro AMT, Embedded* *Workstation ATX PCI-32* *Workstation ATX*

MODEL	X11SSV-Q	X11SSQ	X11SAE X11SAE-F	X11SAE-M
Processor	Intel® 6th Generation Core™ i7/i5/i3 series, Intel® Celeron®, Intel® Pentium®, Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® 6th 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® 6th 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
Chipset/System Bus	Intel® Q170	Intel® Q170	Intel® C236	Intel® C236
Form Factor	Mini-ITX 6.7" x 6.7"	microATX 9.6" x 9.6"	ATX 12" x 9.6"	micoATX 9.6" x 9.6"
Memory Capacity & Slots	32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	4x 288-pin DDR4 DIMM slots Up to 64GB DDR4 Non-ECC UDIMM	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 Mini-PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, 2242/2280	1 PCI-E 3.0 x16 slot 2 PCI-E 3.0 x4 slots (Open Slot) 1 PCI-E 3.0 x1 slot M.2 PCI-E x2 M Key 2242/60/80	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	1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 1 - 5V PCI 32bit
Onboard RAID Controller	Intel® Q170 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® Q170 controller for 6 SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10 Intel® RST	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)
Onboard LAN	Single LAN with Intel® PHY i219LM Single LAN with Intel® Ethernet Controller i210-AT	Single Intel® I210-AT Gigabit Ethernet LAN port Single Intel® PHY I219LM Gigabit Ethernet LAN port	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
Onboard VGA	1 HDMI 1 DP (DisplayPort) 1 DVI - I 1 Intel® HD Graphics 3 Independent Displays	1x HDMI, 1x DP (Display Port), 1x DVI-D, Intel® HD Graphics 3x Independent Displays from Processor Graphics	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***
USB Ports	6 USB 3.0 ports (4 rear + 2 via header) 5 USB 2.0 ports (+ 4 via headers +1 Type A)	4x USB 3.0 ports (2 rear + 2 via header) 8x USB 2.0 ports (4 rear + 4 via headers)	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)
Other Onboard I/O Devices	2 SuperDOM Ports ALC 888S HD Audio TPM Header 2 COM Ports (2 rears)	1x SuperDOM (Disk on Module) ports with built-in power SGPIO Header SMbus header	Ext. Power Connector Only ALC 888S HD Audio TPM 1.2 onboard Header 2 COM Ports (2 headers) Thunderbolt AIC 2.0/3.0	Ext. Power Connector Only ALC 888S HD Audio TPM 1.2 onboard Header 1 COM Port (1 header) Thunderbolt AIC 2.0/3.0
Manageability	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	AMT, NMI, vPro Watch Dog SuperDoctor® 5	-F: IPMI 2.0 + KVM; Intel® Node Manager, NMI SPM, SUM, SuperDoctor® 5, Watch Dog, AMT vPro (non-F)	AMT, SuperDoctor® 5, Watchdog , vPro
Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	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
Thermal Control	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	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
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, Intel® Smart Response Technology, M.2 NGFF connector, System level control, WOL. RST	Chassis intrusion detection Chassis intrusion header RoHS AMT, 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
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

Braswell SoC
Quad LAN
IPMI
mini-ITX

Broadwell-DE,
Xeon D 8-Core
128GB Memory
mini-ITX

Broadwell-DE,
Xeon D 4 or 8-Core
128GB Memory
mini-ITX

MODEL	X11SBA-LN4F X11SBA-F	X10SDV-F X10SDV-TLN4F	X10SDV-8C-TLN4F X10SDV-6C-TLN4F X10SDV-4C-TLN4F
Processor	Intel® Pentium® Processor N3700 Socket FCBGA1170 supported; CPU TDP support 6W 1.6-2.4GHz 2MB	Intel® Xeon® processor D-1541 FCBGA 1667 supported, CPU TDP support 45W, 2.1-2.7GHz, 12MB	Intel® Xeon® processor D-1541 FCBGA 1667 supported, CPU TDP support 45W, 2.1-2.7GHz, 12MB, 8 Cores, 16 Threads 6C : D-1528, 9M, 6 Core, 35W 4C : D-1518, 6M, 4 Core, 35W
Chipset/System Bus	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"
Memory Capacity & Slots	8GB Unbuffered non-ECC SO-DIMM, DDR3-1600MHz, in 2 DIMM slots	4x DDR4 DIMM sockets Supports up to 128GB DDR4 ECC RDIMM Supports up to 64GB DDR4 ECC/non-ECC UDIMM	4x DDR4 DIMM sockets Supports up to 128GB DDR4 ECC RDIMM Supports up to 64GB DDR4 ECC/non-ECC UDIMM
Expansion Slots	1 PCI-E 2.0 x1 (in x8 slot) 1 Mini-PCI-E with mSATA support	1x PCI-E 3.0 x16 slot M.2 PCI-E 3.0 x4, M Key 2242/2280	1x PCI-E 3.0 x16 slot M.2 PCI-E 3.0 x4, M Key 2242/2280
Onboard RAID Controller	SoC controller for 2 SATA3 (6 Gbps) ports	SoC Controller 6 SATA3 (6Gbps), RTSe, Raid, 0,1,5,10	SoC Controller 6 SATA3 (6Gbps), RTSe, Raid, 0,1,5,10
Onboard LAN	Quad LAN with Intel® Ethernet Controller I210-AT 1x RJ45 Dedicated IPMI LAN port (-F with Dual LAN)	2x RJ45 10Gigabit Ethernet LAN ports (-TLN4F only) 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port	2x RJ45 10GBase-T ports 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
Display Ports	1 HDMI, 1 DP (DisplayPort), 1 Aspeed AST2400 BMC VGA port (X11SBA-F with Dual LAN)	1x VGA port	1x VGA port
USB Ports	2 USB 3.0 ports (2 rear) 7 USB 2.0 ports (2 rear + 4 via headers + 1 Type A)	2x USB 3.0 ports (rear) 4x USB 2.0 ports (via headers)	2x USB 3.0 ports (rear) 4x USB 2.0 ports (via headers)
Other Onboard I/O Devices	1 Port SuperDOM ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)	1 port SuperDOM 1 COM port header TPM header	1 port SuperDOM 1 COM port header, TPM header
Manageability	IPMI2.0 KVM with dedicated LAN NMI SUM SuperDoctor® 5 Watchdog	IPMI2.0 KVM with dedicated LAN NMI SUM SuperDoctor® 5 Watchdog	IPMI2.0 KVM with dedicated LAN NMI SUM SuperDoctor® 5 Watchdog
Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control	Monitors for CPU Cores, +1.8V, +12V, +3.3V, +5V, Chassis intrusion header, System level control	Monitors for CPU Cores, +1.8V, +12V, +3.3V, +5V, Chassis intrusion header, System level control
Thermal Control	2 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	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level 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, 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, 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, System level control, UID, WOL, 0°C -60°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

Quark™
IoT Gateway

Avoton™ and Rangeley
Low Power
mini ITX

Avoton™ and Rangeley
Low Power
uATX

Rangeley3 pair LAN bypass
Quick Assist Technology
uATX

MODEL	A1SQN A1SQN-E	A1SAi-2750F/2550F A1SRi-2758F/2558F	A1SAM-2750F A1SAM-2550F A1SRM-2758F A1SRM-2558F	A1SRM-LN7F-2758 A1SRM-LN7F-2358
Processor	Intel® Quark™ SoC X1021 Socket FCBGA393 CPU 2.2W	A1SAi-2750F/2550F: Intel® Avoton Atom™ Processor C2750 (8C/20W) or C2550 (4C/14W) A1SRi-2758F/2558F: Intel® Rangeley Atom™ Processor C2758 (8C/20W) or C2558 (4C/15W) Socket FCBGA1283 CPU	Intel® Avoton Atom™ Processor C2750 (8C/20W) or C2550 (4C/14W) C2758 (8C/20W) or C2558 (4C/15W) Socket FCBGA1283 CPU	Intel® Atom™ Processor C2758 (8C/20W) or C2358 (2C/7W)
Chipset/System Bus	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)
Form Factor	4.1" x 4.0"	Mini-ITX 6.75" x 6.75"	MicroATX 9.6" x 7.5"	MicroATX 8.0" x 9.6"
Memory Capacity & Slots	512 MB onboard, ECC	Up to 64GB ECC SODIMM in 4 slots	Up to 64GB ECC/Non ECC UDIMM in 4 slots	Up to 64GB ECC/Non ECC UDIMM in 4 slots
Expansion Slots	Mini-PCI-E 2 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)
Onboard RAID Controller	N/A	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps)	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps)	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps)
Onboard LAN	Dual LAN with SoC 100Mb	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)
Display Ports	N/A	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC
USB Ports	2 USB 2.0 ports Device & Host	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)
Other Onboard I/O Devices	RS232 with DB9, RS485, Digital I/O and Analog input from screw terminal interface, TPM 1.2 onboard	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
Manageability	Watch dog	IPMI2.0 SuperDoctor 5 Watch Dog	IPMI2.0 SuperDoctor 5 Watch Dog	IPMI2.0 SuperDoctor® 5 Watch dog
Health Monitoring	N/A	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
Thermal Control	N/A	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	Intel® Gateway Solution for IoT (formerly Moon Island) Software license entitlement included, Micro SDHC up to 32GB slot 5-18V DC Jack with locking design A1SQN: Operating Temperature 0℃ -60℃. A1SQN-E: Operating Temperature -20℃ -75℃	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℃ -60℃ 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℃ -60℃ 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℃ -60℃ operating temperature
BIOS	Board Support Package	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance
* Please check Tested Memory List on Supermicro website for compatibility

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

vPro AMT
mSATA Slot
uATX

VHD Support
uATX

Workstation and Desktop
ATX PCI-32

MODEL	X10SLV/-Q	X10SLQ	X10SLH-F	X10SAE
Processor	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	Intel® Xeon® processor E3-1200 v3 /v4 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 v3/v4 series. Socket LGA 1150 supported; CPU TDP support Up to 135W TDP
Chipset/System Bus	Intel® H81, Q87 for-Q	Intel® Q87 Express Chipset	Intel® C226 Chipset	Intel® C226
Form Factor	Mini-ITX 6.7" x 6.7"	MicroATX 9.6" x 9.6"	MicroATX 9.6" x 9.6"	ATX 12" x 9.6"
Memory Capacity & Slots	Up to 16GB DDR3 1600MHz Non ECC SODIMM in 2 slots	Up to 32GB Unbuffered non-ECC, DDR3-1600MHz in 4 DIMM slots	Up to 32GB Unbuffered ECC/non-ECC, DDR3-1600MHz in 4 DIMM slots	32GB Unbuffered ECC/non-ECC, DDR3-1600MHz in 4 DIMM slots
Expansion Slots	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	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
Onboard RAID Controller	Intel® H81 controller for 2 SATA3 (6 Gbps) ports; 2 SATA2 (3 Gbps)	Intel® Q87 controller for 5 SATA3 (6Gbps) ports; 0,1,5,10	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;
Onboard LAN	Dual LAN with Intel® i217V & i210AT	Dual LAN with Intel® i217LM & i210AT	Dual LAN with Intel® Ethernet Controller i210AT	Single LAN with Intel® Ethernet Controller I210 Single LAN with Intel® Ethernet Controller I217
Display Ports	1 HDMI, 1 DP (DisplayPort), 1 DVI-I 1 Intel® HD 4600 Graphics, 2 Independent Displays (3 for -Q)	HDMI, DP (DisplayPort), DVI-D, VGA Intel® HD 4600 Graphics, 3 Independent Displays	VGA, Aspeed AS2400 BMC	1 VGA, 1 DVI - I, 1 DP (DisplayPort), 1 HDMI
USB Ports	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)	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)
Other Onboard I/O Devices	1 SATA DOM power connector, ALC 888S HD Audio Font 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	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)
Manageability	SuperDoctor 5, Watch Dog	SuperDoctor 5, Watch Dog, AMT 9.0, vPro	IPMI 2.0 + KVM with dedicated LAN, NMI, SuperDoctor 5, Watch Dog	AMT SuperDoctor 5 vPro Watchdog
Health Monitoring	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	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
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	Overheat LED indication, fan speed control, 5x 4-pin fan headers with tachometer monitoring	5 4-pin, Fan speed control, Overheat LED indication
Other Features	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	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
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

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

**Atom™ N2800
HDMI, DisplayPort, VGA, LVDS
mini-ITX**

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

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

MODEL	X10SBA X10SBA-L	X9SCAA X9SCAA-L	X9SPV-M4 X9SPV-M4-3UE X9SPV-M4-3QE	X9SPV-LN4F-3QE X9SPV-LN4F-3LE
Processor	Intel® Celeron® Processor J1900 10W FCBGA1170 , 2.0-2.42GHz	Intel® Atom™ N2800 6.5W, FCBGA559 , 1.86GHz	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	SoC (System on Chip)	Mobile Intel® NM10 Express Chipset	Mobile Intel® QM77 Express Chipset	Mobile Intel® QM77 Express Chipset
Form Factor	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7"W x 6.7"H	Mini-ITX 6.75"W x 6.75"H	Mini-ITX 6.75"W x 6.75"H
Memory Capacity & Slots	2 DIMM slots, 8GB with two 4GB SODIMM configuration, 1.35V only	Up to 4GB DDR3 1066 MHz non-ECC SODIMM in 2 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 2.0 x2 1 Mini-PCI-E slot, 1 mSATA slot	1 PCI-32bit 1 Mini-PCI-E (mSATA support)	1 PCI-E 3.0 x 16 1 Mini-PCI-E (mSATA support)	1 PCI-E 3.0 x16
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]	2x SATA 2.0 (3Gb/s)	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 I210-AT	Dual LAN ports with Intel® 82574L Gigabit Ethernet Controllers	Quad LAN ports with 3 Intel® 82574L and one Intel® 82579LM Gigabit Ethernet Controllers	Quad LAN ports with Intel® 82574L Gigabit Ethernet Controllers
Display Ports	1 VGA, 1 HDMI, 1 DP (DisplayPort), 1 eDP (Embedded DisplayPort), 2 independent displays	Intel® GMA3650 Graphic Controller HDMI+DisplayPort+VGA+LVDS	Intel® HD 4000 Graphic Controller DVI-I + HDMI + DisplayPort + eDP	BMC integrated Matrox G200 or Intel® HD Graphics 4000 VGA
USB Ports	1 USB 3.0 ports (rear) 5 USB 2.0 ports (1 rear + 3 via headers + 1 Type A)	2 USB 3.0 ports (via headers) 6 USB 2.0 ports (2 rear, 4 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	TPM 1.2 Header 4 COM Ports (headers)	4 fast UART one with RS422/485 PS/2 mouse & keyboard TPM header Audio Header	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	SuperDoctor® 5 Watchdog	Watch Dog SuperDoctor® 5	Watch Dog SuperDoctor® 5 AMT 8.0, vPro	IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor® 5
Health Monitoring	Two 4-pin fan headers with tachometer monitoring, Supports system management utility, System level control	One 4-pin fan headers with tachometer monitoring, 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, 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	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, WOL , 0°C – 60°C operating temperature	4-pin 12v DC power connector, ACPI power management, WOL, control of power-on for recovery from AC power loss, 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, 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

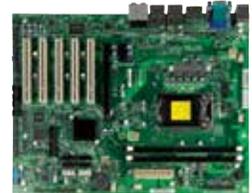**Embedded Communication**
Intel® Quick Assist Technology
Flex ATX

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
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 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℃ -60℃ 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 (-OV4 only) to facilitate embedded system compact design and configuration 0℃ – 55℃ 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℃ – 60℃ 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℃ – 60℃ 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 Solts

High-Performance Storage with SAS3 & Dual 10GbE

MODEL	X10SRW-F	X10SRi-F	X10SRL-F	X10SRH-CLN4F
Processor	Intel® Xeon® Processor E5-2600/1600 v3 (Haswell) product families supported; CPU TDP support Up to 145W	Intel® Xeon® Processor E5-2600/1600 v3 (Haswell) product families supported; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600/1600 v3 (Haswell) product families supported; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600/1600 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 solt) 1x PCI-E 3.0 x 8 (in x 16 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 (12Gbs) 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
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, 1header) 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

† Supermicro chassis required for optimal functionality and performance   * Please check Tested Memory List on Supermicro website for compatibility

**Xeon® E5-2600
6 PCI-E 3.0 slot,
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**
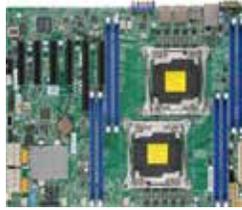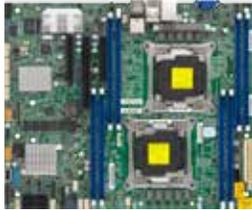
**LSI 3108 SAS3 HW RAID
Quad 10GbE LAN
24 DIMMs**

MODEL	X10DRi X10DRi-T	X10DRH-C(T) X10DRH-i(T)	X10DAi	X10DRC-T4+/LN4+ X10DRi-T4+/LN4+
Processor	Intel® Xeon® Processor E5-2600 v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 160W	Intel® Xeon® Processor E5-2600 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, DDR4-2133MHz in 16 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	Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM, DDR4-2133MHz 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 (12Gbs) 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 (12Gbs) 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
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 v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v3 (Haswell) product family supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 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
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

New!
Front I/O

Model	SCE100-015E	SC101S	SC101i	CSE-721TQ-250B	SC504-203B	SC505-203B	SC510T-203B	SC512L-260B-LCD
Form Factor	E100 Box PC	1U Mini ITX Box PC	Mini-ITX Box PC	Mini Tower	1U Rackmount	1U Rackmount Front I/O	1U Rackmount	1U Rackmount
Compatible Motherboard	4"x4.1"	Mini ITX	Mini-ITX	Mini ITX	Flex ATX, Mini-ITX	Flex ATX, Mini-ITX	MicroATX	ATX, MicroATX
CPU Support	Single processor	Single processor	Single processor	Single processor	Single processor	Single processor	Single processors	Single processors
Drive Bays	N/A	1x Fixed 2.5" SATA	1x Fixed 2.5" SATA	4 x 3.5" Hot-Swap SATA HDD 2x internal 2.5" SATA HDD	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	1x Fixed 2.5" or 3.5" SATA
Expansion Slots	2x Mini PCI-E and 1x Micro SDHC internal slot	2x Mini PCI-E	1x Mini-PCI-E (optional)	1 x low profile, half-length	1x full-height, half- length	1x full-height, half- length	1x low profile, half- length	1x full-height, half- length
Power Supply	15W Power Adapter	60W Power Adapter	60W / 80W Power Adapter	250W Flex ATX Multi-output Bronze Power Supply	200W High-Efficiency Power Supply 80 PLUS® Gold Certified	200W High-efficiency Power Supply 80 PLUS® Gold Certified	200W High-efficiency Power Supply 80 PLUS®	260W Power Supply
Dimensions (WxDxH)	5.3"x4.3"x1.4" 135 x 109 x 36 mm	7.68"x7.68"x1.7" 195 x 195 x 43 mm	7.68"x7.68"x2.68" 195 x 195 x 68 mm	11"x8.27"x9.45" 280 x 210 x 240 mm	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	16.8"x14"x1.7" 437 x 356 x 43 mm

BBP® (Battery Backup Power) Solutions

New, innovative, Battery Backup Power (BBP®) technology providing a cost-effective infrastructure solution for mission-critical server and storage operation. The PWS-1K03B-1R is an industry-first Battery Backup Power (BBP®) module contained in the same form factor as a Supermicro redundant AC power supply (76W x 360D x 40.4H mm). This module is hot-swappable and fits Supermicro 1U/2U/3U/4U chassis providing high output power in 1200W/1min and 1000W/2.5 min options. These can be implemented in 1+1+1 (2 AC modules + 1 BBP® Module), 1+2 (1 AC + 2 BBP® @ 2000W) or 2+2 (2 AC + 2 BBP® @ 2000W) configurations. For Supermicro's 1U servers, the PWS-206B-1R (54.5W x 220D x 40H mm) provides BBP® protection in 200W/5min and 100W/15min options.

Model	PWS-206B-1R	PWS-1K03B-1R
Total Output Power	200W / 5 minutes	1000W / 2.5 minutes
Input	Work w/ PWS-406P / 503P / 606P / 703P-1R	Work w/ PWS-1K28P-SQ / PWS-920P-SQ / PWS-741P-1R / PWS-501P-1R
Form Factor	1U	1U
Dimension (LxWxH) cm	22 x 5.45 x 4	36 x 7.6 x 4
Battery Capacity	40Whr	97Whr
Redundant	Yes	Yes
I²C Remote Monitoring	FRU/Smart battery I²C	FRU/Smart battery I²C
+12V	16.7A	83.3A
5VSB	2A	4A
Efficiency	Online mode power consumption less than 2W	Online mode power consumption less than 2W

SYS-1027R-72BRFTP

SYS-6037R-72RFT+ (rear view)

Supermicro Embedded Building Block Solutions - February 2016

SC512F-350B	SC514-R400W SC-514-R400C	SC514-505	SC515-R407	SC825MTQ-R700LPB	SC835BTQ-R1K28	SC842XTQ-R606B
1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount	2U Rackmount	3U Rackmount	4U Rackmount
ATX, MicroATX	WIO E-ATX 12.3"x13"	E-ATX, ATX, MicroATX/WIO	ATX, Micro ATX/WIO	E-ATX, ATX, MicroATX	E-ATX, ATX, MicroATX	E-ATX, ATX, MicroATX; max. motherboard size 15.2" x 13.2
Single processors	Dual and single processors	Dual and single processors	Single processors	Dual and single processors	Dual and single processors	Dual and single processors
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. - Extra 2x 2.5" Fixed HDD with ATX MB - Extra 1x 3.5" or 2x2.5 Fixed HDD with WIO and Half Length Add on Card.	3x 3.5" Hot-swap SAS / SATA	8x Hot-swap 3.5" SAS / SATA	5x Hot-swap 3.5" SAS / SATA
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	7 low-profile expansion slots	7x full-height, full-length	7x full-height, full-length and 4x full-height, half-length
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	700W Redundant High-Efficiency Power Supply	1280W Redundant Platinum Level Power Supply	600W Redundant High-Efficiency Power Supply 80 PLUS® Platinum Certified
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	17.2"x17.7"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

Runtime of the BBP™ Modules

Under typical conditions, below is the Estimated Runtime of the current BBP™ modules. Runtime can be extended by adding additional BBP™ modules to a system.

Power Loading	Estimated Runtime		
	PWS-206B-1R	PWS-206B-1R x2	PWS-1K03B-1R
100W	15 min.	20 min.	45 min.
200W	5 min.	10 min.	27 min.
250W	2 min.	7 min.	18 min.
350W	--	6 min.	15 min.
400W	--	5 min.	13 min.
500W	--	1.5 min.	10 min.
1000W	--	--	2.5 min.

1U Riser Cards

Product Image	Model Name	Riser Card Output Type
	RSC-R1U-33	1x PCI
	RSC-RR1U-E8	1x PCI-E x8
	RSC-RR1U-E16	1x PCI-E x16

Front Bezel/LCD

Product Image	Model Name	Feature	Form Factor / Chassis
	MCP-220-00095-0B	LCD display kits	5.25" bay
	MCP-220-00119-0B	Full-color OLED kit	3.5"HDD bay
	MCP-210-00007-01	Front bezel with LCD display	SC813/813M series
	SCPTFB-813LB	Front bezel with lock	SC813/813M series
	MCP-210-82502-0B	Front bezel with lock	SC825M series
	MCP-210-84201-0B	Front bezel with lock	SC842 series

LCD Screen Module

The Supermicro LCD screen module features green LCD display screen. The module displays two backlighted 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.

Embedded Motherboards

Supermicro 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®

Supermicro combines 20+ years of advanced engineering experience with efficient production and integration expertise. Supermicro offers first-to-market embedded computing SuperSever®'s that are fully configured and provides one-stop solution from design support to worldwide service.

Supermicro mSATA

Based on the JEDEC mini-mSATA (MO300B Variation B) form factor, this Super Micro 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 Supe Micro 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 Super Micro mini-mSATA is currently available in 64GB capacity and supports all Super Micro SuperServer® products and solutions.

-SMC Part Number   *-Description*
-SSD-MS064-PHI   -SMC 64GB MLC mini-mSATA

Supermicro Trusted Platform Module (TPM)

The Supermicro AOM-TPM9655V/H is a security hardware device on the system board that will hold computer generated keys for encryption. Supermicro's outstanding hardware base solution ensures that the information like keys, password and digital certificates stored within is 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 additional layer of security to their super servers.

Supermicro 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.

IPC Rackmount Chassis

Supermicro 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 supply, hot-swap accessories, storage and cooling options.

Accessories

Supermicro 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.

Supermicro SATA DOM

Designed to be conveniently inserted into a server board SATA connector, this Super Micro 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).

Super Micro 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 Super Micro SATA DOM does not require a 5V power cable as do other SATA DOM products on the market.

The Super Micro SATA DOM is available in 16GB, 32GB, and 64GB capacities and supports all Super Micro SuperServer® products and solutions.

-SMC Part Number   *-Description*
-SSD-DM016-PHI   -SMC 16GB MLC SATA DOM
-SSD-DM032-PHI   -SMC 32GB MLC SATA DOM
-SSD-DM064-PHI   -SMC 64GB MLC SATA DOM
-SSD-DM128-SMCMVN1

M.2 (Next Generation Form Factor, NGFF)

Specification for expansion cards. It uses the PCI-e Mini Card physical card layout and connectors. M.2 supports flexible physical specification allows mSATA SSD support. Bus interface supports PCI-e 3.0 (up to 4 lanes), SATA 3.0 and USB 3.0 connectivity.

NVMe Express CPCI Express SSD Interface

NVM 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.

OEM Design-in Services

Supermicro is a technology provider of embedded building blocks. We are the First to Market in embedded solutions for critical OEM applications and 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.

About Supermicro

Super Micro 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.

Worldwide Headquarters Campus
Silicon Valley, U.S.A.

European Campus
The Netherlands

San Jose Green Computing Park
Silicon Valley, U.S.A.

Asia Science & Technology Park
New Taipei City, 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.

Product Life Cycle
Extended Life, EOL
Change Control

Product Diversity Selection
Server/Storage/Network

Motherboard form factor
IPC Rackmount chassis
Multi OS

Product Life Cycle Management

Next Generation Roadmap

Standard Architecture

SUPERMICRO®

Environmental Certification

Designed for Safety & Regulatory Standards

Environment Friendly
Power Efficiency
High Density

Green IT

Product Support Service

Quality

World Wide
Design Development
Project Support

Design and Validate for
Quality, Reliability & Safety

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 Super Services, 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.

Transportation Control
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Retail Sales
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Medical Imaging
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