

# IoT SuperServer SYS-110A-24C-RN10SP Coming Soon

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(Angled View – System)



## Key Applications

- 1U Short-Depth Edge Server
- SD-WAN and vCPE / uCPE
- Network Appliance & Security
- Hyper Converged Infrastructure

## Key Features

Intel® Atom® Snow Ridge P5000 16/24-Core with embedded QAT support

1x PCI-E 3.0 x8 expansion for AOC

2 Hot-swap 2.5" SATA3 drive bays

3x 40x28mm 4-PIN PWM fans

Cost Effective 1U Short-Depth Chassis with Redundant 300 PSU

4x 2.5" Internal Drive, M.2 selections (M.2 M-Key for SSD, B-Key for WAN or 4G-LTE module, Ekey for WiFi )

Onboard TPM Header, IPMI with OOB support

## Specifications

**Product SKUs**  
SuperServer **SYS-110A-24C-RN10SP** (Black)

**Motherboard**  
**Super A3SSV-24C-SPLN10F**

**Processor**  
**CPU**  
Single FCBGA-2106  
Intel® Atom® Snow Ridge P5362  
Support CPU TDP 83W

**System Memory**  
**Memory**  
Memory Capacity: 4 DIMM slots  
Up to 256GB: ECC RDIMM/ECC non ECC  
UDIMM

Memory Type: 2933MHz ECC DDR4  
RDIMM/UDIMM

**Memory Voltage**  
1.2V

**Error Detection**  
ECC

**On-Board Devices**  
**SATA**  
SATA3.0

**Chipset**  
System on Chip

**Network Connectivity**  
4x 1GbE BaseT with Intel® i350-AM4 LAN controller  
4x 1GbE BaseT or 2x 25GbE SFP28 with Intel P5000 SoC

**IPMI**  
Support for Intelligent Platform Management Interface v.2.0  
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

**Input / Output**  
**SATA**  
2 SATA (6Gbps) port(s)

**LAN**  
1 Dedicated IPMI LAN port  
2x 25 GbE  
8x 1 GbE

**USB**  
2 USB 3.1 Gen1 port(s) (2 USB)

**Video**  
1 VGA port(s)

**System BIOS**  
**BIOS Type**  
AMI 32MB UEFI

**Management Software**  
IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

**Power Configurations**  
CPU thermal trip support for processor protection

**PC Health Monitoring**  
**FAN**  
3 fans with tachometer status monitoring,  
Status monitoring for speed control  
Fan speed control, Dual Cooling Zone  
Pulse Width Modulated (PWM) fan connectors  
Support 3-pin fans (w/o speed control)

**Temperature**  
CPU thermal trip support  
Thermal Control for 3 Fan Connectors

**Chassis**  
**Form Factor**  
1U Rackmount

**Model**  
**CSE-506TS-R000NP**

**Dimensions and Weight**  
**Height**  
1.7" (43mm)

**Width**  
17.2" (437mm)

**Depth**  
9.8" (249mm)

**Package**  
6.1" (H) x 25.8" (W) x 18.3" (D)

**Weight**  
Net Weight: 8 lbs (3.63 kg)  
Gross Weight: 12 lbs (5.44 kg)

**Available Color**  
Black

**Front Panel**  
**Buttons**  
Power On/Off  
Reset On/Off

**LEDs**  
HDD Status  
LAN1 activity  
LAN2 activity  
Power status  
System information

**Expansion Slots**  
**PCI-Express (PCI-E)**  
1 x PCIe 3.0 x 8 HHHH

**Drive Bays / Storage**  
**Hot-swap**  
2x 2.5" hot-swap SATA/PCIe drive bays

**M.2**  
1x M-Key 2242/2280/22110 (PCIe 2.0 x4/SATA 2.0/USB 2.0)  
1x B-Key 2242/3042/2280 (PCIe 2.0 x2/SATA 2.0/USB 3.0)  
1x E-Key 2230 (PCIe 2.0 x1/USB 2.0)

**System Cooling**  
**Fans**  
3x 4-PIN PWM 40x28mm Fan(s)

**Power Supply**  
300W Redundant module  
cable Power supply

**Dimension**  
**(W x H x L)**  
106 x 40.5 x 220 mm

**AC Input**  
300W: 100-240Vac / 68.5A Max / 50-60Hz

**Certification**  
**Gold Level**

[ **Test Report** ]

**Operating Environment**  
**Environmental Spec.**

Operating Temperature:  
0°C ~ 40°C (32°F ~ 104°F)

Non-operating Temperature:  
-40°C to 70°C (-40°F to 158°F)

Operating Relative Humidity:  
8% to 90% (non-condensing)

Non-operating Relative Humidity:  
5% to 95% (non-condensing)

**Note**  
**Acceptable AC Input Voltage: 100-240Vac / 5.5A-10A / 50-60Hz**

**Operating Temperature: Continuous 0°C ~ 40°C (32°F ~ 104°F), Short term -5°C ~ 55°C (23°F ~ 131°F)**

## Parts List

### Standard Parts (Parts Included)

Motherboard / Chassis		
Part Number	MBD-A3SSV-24C-SPLN10F	CSE-506TS-R000NP
Qty	1	1
Description	Super A3SSV-24C-SPLN10F Motherboard	1U Chassis

Backplane	
Part Number	BPN-SAS3-826TQ-B2B
Qty	1
Description	2-port 2U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD

Cable					
Part Number	CBL-0234L	CBL-SAST-0538	CBL-PWCD-0260-IS	CBL-PWEX-1097-15	CBL-PWEX-1098F-10
Qty	1	2	2	1	1
Description	Y CABLE FOR 4-PIN HDD	29cm 30AWG SATA S-RA Cable	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,18AWG,RoHS/REACH	[NR] CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,15CM	[NR] 16PIN CNTL PANEL CONVERTER CBL FOR SC826,PBF,FFC,10CM

Rear Window		
Part Number	MCP-240-00091-0N	
Qty	1	
Description	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF	
Parts		
Part Number	MCP-260-00135-0B	MCP-260-00100-0B
Qty	1	1
Description	1U 504/505/510 I/O Shield for A2SDV-LN10PF with EMI Gasket	1U I/O Shield
Air Shroud		
Part Number	MCP-310-50601-0B	
Qty	1	
Description	Mylar air shroud for SC506 with A3SSV-24C-SPLN10F	
Manual		
Part Number	MNL-2309-QRG	
Qty	1	
Description	5019A-FN5T Quick Reference Guide	
Riser Card		
Part Number	RSC-RR1U-E8	
Qty	1	
Description	RSC-RR1U-E8	
*Power Supply		
Part Number	PWS-301P-1R	
Qty	2	
Description	1U 300W Redundant Single Module for PWS-301R-1R	
*Power Distributor		
Part Number	PDB-PT506-N24	
Qty	1	
Description	1U 300W Redundant Backplane and Housing for PWS-301R-1R, RoH	
*Fan		
Part Number	FAN-0065L4	
Qty	3	
Description	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M	
*Front Panel		
Part Number	FPB-FP826-D	FPB-TB826
Qty	1	1
Description	Front control board Dual color LED(FP826-D)forSC826,213,216,219	16 pin Cable Adaptor Board for SC826
*Drive Tray(s)		
Part Number	MCP-220-00147-0B	
Qty	2	
Description	Black gen-3 hot-swap 2.5"; Tool-less HDD tray (clip design)	
*Fan Holder		
Part Number	MCP-320-81302-0B	
Qty	3	
Description	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)	

Notes:

1. Parts with \* are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.