

SuperServer 5029A-2TN4



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Key Features

- Compact Cloud Server
- Edge Computing Device
- 7 Years life cycle

1. Intel® Atom processor C3338, SoC, FCBGA 1310, CPU TDP support 9W
2. 4 Hot-swap 3.5" SATA drive bays, 2 internal 2.5" drive bays, 1 slim DVD-ROM drive bay (shared with 1 internal 2.5")
3. 1 PCI-E 3.0 x2 (in x4) open ended slot
4. Up to 64GB RDIMM or 32GB ECC/non-ECC UDIMM, DDR4-1866MHz in 2 DIMM slots
5. Quad 1GbE LAN ports via Intel C3000 SoC; IPMI 2.0, KVM with dedicated LAN
6. 1 VGA, 1 Aspeed AST2400 BMC
7. 1 USB 3.0 (1 Type A), 4 USB 2.0 (2 rear, 2 via header)
8. 1x 12cm rear exhaust fan
9. 250W Flex ATX Multi-output Bronze Power Supply

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

- SYS-5029A-2TN4
 - SuperServer 5029A-2TN4 (Black)

Motherboard

Super [A2SDi-2C-HLN4F](#)

Processor/Cache

- CPU
 - Intel® Atom® Processor C3338
 - FCBGA 1310
 - CPU TDP support 9W
 - System-on-Chip

System Memory

- Memory Capacity
 - Up to 64GB Register DIMM RDIMM and DDR4-1866MHz
 - Up to 32GB Unbuffered ECC/non-ECC UDIMM, DDR4-1866MHz, in 2 DIMM slots
- Memory Type
 - 2400/2133/1866/1600MHz DDR4 RDIMM and ECC/Non-ECC UDIMM (Operating speed up to 1866MHz)

Chassis

- Form Factor
 - Mini Tower
- Model
 - [CSE-721TQ-250B](#)


Dimensions and Weight

- Height
 - 9.45" (240mm) / 13.78" (350mm) pkg.
- Width
 - 8.27" (210mm) / 12.4" (315mm) pkg.
- Depth
 - 11" (279mm) / 16.14" (410mm) pkg.
- Weight
 - Net Weight: 15 lbs (6.8 kg)
- Available Colors
 - Black

Front Panel

- Buttons
 - Power On/Off button
 - System Reset button
- LEDs
 - Power LED
 - Hard drive activity LED
 - Network activity LEDs
 - System Overheat LED

DIMM Sizes	<ul style="list-style-type: none"> 32GB (RDIMM only), 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
On-Board Devices	
SATA	<ul style="list-style-type: none"> SoC controller for 6 SATA3 (6Gbps) ports
Network Controllers	<ul style="list-style-type: none"> Quad 1GbE LAN with Intel C3000 SoC Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	<ul style="list-style-type: none"> Aspeed AST2400 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 6 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 4 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 1 USB 3.0 (Type A) 4 USB 2.0 (2 front, 2 rear)
COM Port	<ul style="list-style-type: none"> 1 COM port (1 header)
Video	<ul style="list-style-type: none"> 1 VGA
TPM	<ul style="list-style-type: none"> 1 TPM Header
Management	
Software	<ul style="list-style-type: none"> SuperDoctor® 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management ATX Power connector Control of power-on for recovery from AC power loss CPU thermal trip support for processor protection

Expansion Slots	
PCI-E	<ul style="list-style-type: none"> 1 PCI-E 3.0 x2 (in x4) open ended slot
Drive Bays	
HDD	<ul style="list-style-type: none"> 4 Hot-swap 3.5" drive bays 2 Internal 2.5" fixed drive bays
Peripheral	<ul style="list-style-type: none"> 1 slim DVD-ROM drive bay (shared with 1 internal 2.5" fixed drive bay)
System Cooling	
Fan	<ul style="list-style-type: none"> 1x 12cm rear exhaust fan
Power Supply	
250W Flex ATX Multi-output Bronze Power Supply	
AC Voltage	<ul style="list-style-type: none"> 100 - 240V, 50 - 60Hz, 5Amp
+5V	<ul style="list-style-type: none"> Max:14 Amp; Min:0.5 Amp
+12V	<ul style="list-style-type: none"> Max:18 Amp; Min:1 Amp @100V-240V
-12V	<ul style="list-style-type: none"> Max: 3 Amp; Min: 0 Amp
+3.3V	<ul style="list-style-type: none"> Max: 12 Amp Min: 0.3Amp
5VSB	<ul style="list-style-type: none"> Max: 2.5 Amp Min: 0 Amp
Certification	 Bronze Certified
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI UEFI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) DMI 2.3 ACPI 5.0 USB Keyboard support SMBIOS 2.7.1 UEFI
Operating Environment / Compliance	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 0°C to 40°C (32°F to 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)

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SDi-2C-HLN4F	1	Super A2SDi-2C-HLN4F Motherboard
	CSE-721TQ-250B	1	Mini Tower Chassis
Backplane	CSE-SAS-733TQ	1	4x3.5" SAS2/SATA3 backplane w/SES-II
Cable 1	CBL-SAST-0616	1	MINI SAS HD-4 SATA,6G,INT,50CM,50CM SB,30AWG
Parts	MCP-260-00084-0N	1	Standard I/O Shield for A1SRM-LN7F with EMI Gasket,RoHS/REACH
Power Supply	PWS-251-1H	1	1U 250W Flex ATX Multi-output Bronze Power Supply

Optional Parts List			
	Part Number	Qty	Description
DVD-RW	DVM-TEAC-DVDRW-SBT3	-	BLACK TEAC SLIM DVD-RW SATA DRIVE,HF,RoHS/REACH,PBF

DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD kit
CPU Heatsink Fan	SNK-P0046A4	-	2U ACTIVE CPU HS FOR INTEL LGA1156
Power Cable	CBL-PWEX-0645	-	Big 4 pin male to big 4 pin female, power extension 15cm, 20AWG,RoHS/REACH