

SuperServer 5029AP-TN2



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Key Features

- Embedded, Compact Mini Tower
- 2 Independent Displays, M.2 slot
- 7 Years product life cycle

1. Intel® Atom processor E3940, SoC, FCBGA 1296
2. 4 Hot-swap 3.5" SATA3 HDD, 2 internal 2.5" fixed HDD
3. 1 PCI-E 2.0 x2 (in x8) slot, 1 M.2 PCIe 2.0 x2, M Key 2242/80 1 Mini-PCIe with mSATA support
4. Up to 8GB Unbuffered non-ECC DDR3-1866MHz SO-DIMM in 1 DIMM slot
5. Dual GbE LAN ports via Intel I210-AT
6. 1 DP (Display Port), 1 HDMI, 1 VGA, 1 Intel® HD Graphics, 2 Independent Displays
7. 2 USB 3.0 (rear), 4 USB 2.0 (2 rear, 2 front), 1 USB 2.0 Type A
8. 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-5029AP-TN2	▪ SuperServer 5029AP-TN2 (Black)
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Motherboard

Super A2SAV

Processor/Cache

CPU	<ul style="list-style-type: none"> ▪ Intel® Atom™ Processor E3940 ▪ FCBGA 1296 ▪ System-on-Chip
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System Memory

Memory Capacity	▪ 1x 204-pin DDR3 SO-DIMM socket
Memory Type	▪ 1866/1600/1333MHz Unbuffered non-ECC SO-DIMM DDR3, 204-pin gold-plated DIMMs
DIMM	▪ 8GB, 4GB, 2GB

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	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ Hard drive activity LED ▪ Network activity LEDs ▪ System Overheat LED

Sizes	
Memory Voltage	▪ 1.5 V, 1.35 V
On-Board Devices	
SATA	▪ SoC controller for 2 SATA3 (6Gbps) ports ▪ Marvel 88SE9230 controller for 4 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
Network Controllers	▪ Dual GbE LAN with Intel i210-AT controller ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	▪ Intel HD Graphics
Input / Output	
SATA	▪ 6 SATA3 (6Gbps) ports
LAN	▪ 2 RJ45 Gigabit Ethernet LAN ports
USB	▪ 2 USB 3.0 (2 rear) ▪ 4 USB 2.0 (2 rear, 2 front) ▪ 1 USB 2.0 (Type A)
COM Port	▪ 2 serial ports
DOM	▪ 1 SATA DOM (Disk on Module) power connector
Video	▪ 1 VGA, 1 DP (Display Port), 1 HDMI, 1 eDP (Embedded Display Port), 1 Intel HD Graphics
TPM	▪ 1 TPM 1.2 onboard Header
Management	
Software	▪ SuperDoctor® 5 ▪ Watch Dog
Power Configurations	▪ 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	▪ 1 PCI-E 2.0 x2 (in x8) slot ▪ 1 M.2 PCIe 2.0 x2, M Key 2242/80 ▪ 1 Mini-PCIe with mSATA
Drive Bays	
HDD	▪ 4 Hot-swap 3.5" drive bays ▪ 2 Internal 2.5" fixed drive bays
Peripheral	▪ 1 slim DVD-ROM drive bay (shared with 1 internal 2.5" fixed drive bay)
Power Supply	
250W Flex ATX Multi-output Bronze Power Supply	
AC Voltage	▪ 100 - 240V, 50 - 60Hz, 5Amp
+5V	▪ Max:14 Amp; Min:0.5 Amp
+12V	▪ Max:18 Amp; Min:1 Amp @100V-240V
-12V	▪ Max: 3 Amp; Min: 0 Amp
+3.3V	▪ Max: 12 Amp Min: 0.3Amp
5VSB	▪ Max: 2.5 Amp Min: 0 Amp
Certification	 Bronze Certified
System BIOS	
BIOS Type	▪ 64Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ DMI 2.3 ▪ ACPI 5.0 ▪ USB Keyboard support ▪ SMBIOS 2.7.1 ▪ UEFI
Operating Environment / Compliance	
RoHS	▪ RoHS Compliant
Environmental Spec.	▪ Operating Temperature: 10°C to 35°C (50°F to 95°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-A2SAV	1	Super A2SAV Motherboard
	CSE-721TQ-250B	1	Mini Tower Chassis
Backplane	CSE-SAS-733TQ	1	4x3.5" SAS2/SATA3 backplane w/SES-II
Cable 1	CBL-0483L	1	SATA,INT,ROUND,ST-ST,29CM,30AWG
Cable 2	CBL-0473L	5	SATA,INT,ROUND,ST-ST,21CM,30AWG
Parts	MCP-260-00058-0N	1	Standard I/O Shield for X9SCAA/-L with EMI Gasket
Power Supply	PWS-251-1H	1	1U 250W Flex ATX Multi-output Bronze Power Supply

Optional Parts List			
	Part Number	Qty	Description
	DVM-TEAC-DVDRW-		BLACK TEAC SLIM DVD-RW SATA

DVD-RW	SBT3	-	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