

Embedded 16-Core Snow Ridge Intel QAT 8x 1GbE LAN 2x 25G SFP28,IPMI 2.0

Key Features

System on Chip
Intel Atom Processor P5342,
Single Socket FCBGA-2106 supported,
CPU TDP support 71 W
Intel Quick Assist Technology
Up to 256GB ECC RDIMM DDR4-2667MHz, in 4 DIMM slots
2x 25G SFP28 ports and 8 GbE RJ45 LAN ports
Supports 12V DC power input
2 USB 3.0 (Type-A on rear)
2 USB 2.0 (via headers)
M.2 Interface:
1x M.2 B-Key 2242/3042/2280 w/PCIe 2.0 x2/SATA 2.0/USB 3.0
1x M.2 M-Key 2242/2280/22110 w/PCIe 2.0 x4/SATA 2.0/USB 2.0
1x M.2 E-Key 2230 w/PCIe 2.0 x1/USB 2.0
Expansion slots:
1 PCIe 3.0 x8
1 PCIe 3.0 x4

Up to 6 SATA 2.0 ports I/O: 1 VGA, 2 COM, TPM 2.0 onboard and header both

Optimized Servers

SYS-110A-16C-RN10SP (/en/products/system/iot/1u/sys-110a-16c-rn10sp)

SYS-110A-16C-RN10SP (/en/products/system/iot/1u/sys-110a-16C-rn10sp)	
Specifications	
Product SKUs	Expansion Slots
MBD-A3SSV-16C-SPLN10F	PCIe
Physical Stats	1 PCie 3.0 x8, 1 PCie 3.0 x4
FormFactor	a mole su xa
Flex ATX	m.z M.2.Interface: 1 PCIe 2.0 x2/SATA 2.0/USB
Dimension	3.0; 1PCIe2.0; 1/052.0; 1PCIe2.0
9" x 7.25" (22.86cm x 18.42cm)	x4/s4T4.2//USB.20
Processor	Form Factor :2242/3042/2280, 2230,
CPU	2242/2280/22110
Intel® Atom® Processor P 5342	Key: B-Key, E-Key, M-Key
Single Socket FCBGA-2106 supported, CPU TDP supports Up to 71W TDP	System BIOS
Core	BIOS Type
Up to 16 cores / 18MB Cache	32MB AMI UEFI
Note	BIOS Features
System Memory	UEF12.7
Jysein menory Memory Capacity	SMBIOS 3.0 or later
4 DIM M slots	ACP16.0 or later
Up to 256G ECC , DDR4-2666MHz	Management
Memory Type	Software
2666 MT/s	Redfish API
DIMM Sizes	(/manuals/other/RedfishRefGuide.
8GB, 16GB, 32GB, 64GB	
Memory Voltage	Juli, subjective manager (SSM) (Isolutions/SMS SSM.cfm).
1.2V	
Error Detection	Supermicro Update Manager
Corrects single-bit errors	(SUM) (/solutions/SMS_SUM.cfm),
Detects double-bit errors (using ECC	SuperDoctor® 5
memory)	(/en/solutions/management-
On-Board Devices	software/superdoctor). Super
Chipset System on Chip	
system on Chip SATA	<u>Diagnostics Offline</u>
SoC controller for 6 SATA2 (3 Gbps) ports	(/en/solutions/management-
IPMI	software/super-diagnostics-
ASPEED AST2500	offline). KVM with dedicated LAN
Graphics	(/manuals/other/BMC_IPMI_X13_
1 ASPEED AST2500 BMC port(s)	H13.pdf#page=112).IPMI 2.0
Network Controllers	
Quad LAN with Marvell® Alaska® 88E1543	(/solutions/IPMI.cfm)
Quad LAN with Intel® i350 Gigabit	System Management Software
Ethernet Controller	IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
Dual LAN with SoC	Power Configurations
Input / Output	Power-on mode for AC powerrecovery,
LAN	ATX Power connector, +12V DC Power
2 SFP28 25 Gigabit Ethernet LAN ports	Input, CPU thermal trip support for
1 RJ45 Dedicated IPMI LAN port 8 RJ45 Gigabit Ethernet LAN ports	processor protection
s KJAS ugabit Ethernet LAN ports USB	Security
USB 2 USB 2.0 port(s) (2 via header)	Hardware
2 USB3.1 (en ports) (2 variesue) 2 USB3.1 (en ports) (2 variype A)	Trusted Platform Module (TPM) 2.0
Video Output	Features
1 VGA D-Sub Connector port(s)	Cryptographically Signed Firmware
Serial Port	Secure Boot
2 COM Port(s) (2 header)	Secure Firmware Updates
DOM	System Lockdown
1 SuperDOM (/SATADOM/) (Disk on	PC Health Monitoring
Module) power connector	Voltage
трм	VBAT, System level control, Supports system management utility, Monitors
1 TPM Header & Chip both	system management utility, Monitors CPU voltages, Memory temperature,
	Chossis Intrusion header, 5-fan status,
	3.3Vstandby,1.2V(VbM),1.05 (PCH),
	+SV standby, +SV +3.3V +12V
	LED
	UID/Remote UID
	PowerLED
	BMC/IPMI Heartbeat LED
	Temperature
	Thermal Control for 5 Fan Connectors
	CPU thermal trip support
	FAN

CPU thermatitip seper. FAN Si4-pin fan headers (up to 5 fans) Fan speed control, Dual Cooling Zone, 5 fans with tachometer status monitoring Status monitoring for speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o connectors, Support 3-pin tans (w/o speed control) Other Features UID, RoHS, Node Manager Support, M. 2 NGFF connector, Dual Cooling Zones, Chassis intrusion header, AIX Power connector, ACP power management, 8-pin 12/v DC power connector, 12/VDC or ATR Power Source, Intel® QuickAssist Technology

 Technology

 Operating Environment

 Operating Temperature Range

 0°C - 6°C (22°F - 140°F)

 Ono-Operating Relative Humidity Range

 10% - 55% (non-condensing)

 Non Operating Relative Humidity Range

 10% - 55% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Shield		
Part Number	MCP-260-00133-0N	
Qty	1	
Description	STANDARD I/O SHIELD FOR A2SD/-LN10PF	
SATA cable		
Part Number	CBL-0044 - eStore	
	(https://store.supermicro.com/supermicro-sata-flat-	
	straight-straight-s7-5cm-cable-cbl-0044(.html).	
Qty	2	
Description	57.5CM SATA FLATS-SPBF	
Standard Parts (Retail Package)		
I/O Shield		
Part Number	MCP-260-00133-0N	
Qty	1	
Description	STANDARD I/O SHIELD FOR A2SDV-LN10PF	
Quick Installation Guide		
Part Number	MNL-2258-QRG	
Qty	1	
Description	A3SSV-8c/16C/24C-SPLN10F QUICK REFERENCE GUIDE	
SATA cable		
Part Number	CBL-0044 - eStore	
	(https://store.supermicro.com/supermicro-sata-flat-	
	straight-straight-57-5cm-cable-cbl-0044(.html)	
Qty	6	
Description	57.5CM SATA FLATS-SPBF	

Global SKU (/en/products/SMC_global_skus)