

Embedded 24-Core Snow Ridge Intel QAT 8x 1GbE LAN 2x 25G SFP28,IPMI 2.0

Key Features

System on Chip

Intel Atom Processor P5362,

Single Socket FCBGA-2106 supported,

CPU TDP support 83 W

Intel Quick Assist Technology

Up to 256GB ECC RDIMM DDR4-2933MHz, 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/PCle 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-24C-RN10SP (/en/products/system/iot/1u/sys-110a-24c-rn10sp)

Specifications
Product SKUs
MBD-A3SSV-24C-SPLN10I

Product SKUS
MBD-A35SV-24C-SPLNIOF
Physical Stats
Form Factor
Flex ATX
Dimension
9"x 7.25" (22.86cm x 18.42cm)
Processor
CPU
Intel® Atom® Processor P5362
Single Socket FCB6A-2106 supported,
CPU TDP supports Up to 83W TDP
Core
LPU TDP supports Up to 83W TDP
Core
Up to 24 cores / 27MB Cache
Note
Note
System Memory
Memory Capacity
Up to 256GB ECC RDIMIM, DDR4-2933MHz
Memory Type
29332/866/2400 MT/s ECC DDR4 RDIMIM
DIMM Sizes
868, 1668, 3208, 648
Memory Otologe
1.2V

1.2V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC memory)
On-Board Devices
Chipset
System on Chip
SATA

SATA
SoC controller for 6 SATA2 (3 Gbps) ports
IPMI
ASPEED AST2500

ASPEED AST2500
Graphics
1 ASPEED AST2500 BMC port(s)
Network Controllers
Quad LAN with Marvell* Alaska* 88E1543
Quad LAN with Intel* 1350 Gigabit
Ethernet Controller
Dual LAN with SoC

Dual LAN with SoC

Input / Output

LAN

2 SFP28 25 Gigabit Ethernet LAN ports

1 RJ45 Dedicated IPMI LAN port

8 RJ45 Gigabit Ethernet LAN ports

USB

2 USB 2.0 port(s) (2 via header)

2 USB 3.1 Gen1 port(s) (2 rear type A)

Video Output 1 VGA D-Sub Connector port(s) Serial Port

Serial Port 2 COM Port(s) 2 COM Port(s) (2 header)

DOM 1 SuperDOM (/SATADOM/). (Disk on Module) power connector TPM

TPM 1 TPM Header & Chip both

Expansion Slots
PCIe
1 PCIe 30.96,
1 PCIe 30.96
1 PCIe 30.96
M. 21 Interface: 1 PCIe 2.0 x2/SATA 2.0/US8
30.1 PCIe 2.0 x1/US8 2.0; PCIe 2.0 x4/SATA 2.0/US8
30.1 PCIe 2.0 x1/US8 2.0; PCIE 2.0 x4/SATA 2.0/US8 2.0
FORM Factor 2.24/32404/2280, 2230,
2242/3280/22110
EXPERIENCE SINCE SIN

Management
Software
Redfish API
(/manuals/other/RedfishRefGuide.

pdf), Supermicro Server Manager

(SSM) (/solutions/SMS_SSM.cfm). Supermicro Undate Manager

(SUM) (/solutions/SMS_SUM.cfm)

SuperDoctor® 5
(/en/solutions/managementsoftware/superdoctor), Super
Diagnostics Offline

(/en/solutions/managementsoftware/super-diagnostics-

offline), KVM with dedicated LAN (/manuals/other/BMC_IPMI_X13

(/manuals/other/BMC | PMI, X13 H13, pdfftpage=112), | PMI 2.0 (/solutions/IPMI.cfm). System Management Software |PMI | Intelligent | Platform Management | Interface) v1.5 / 2.0 with KVM support | Power Configurations | Power con mode for Act power recovery, | AX Power connector, v12V CP Ower | Input, CPU thermal trip support for processor protection

Security Hardware

Hardware
Trusted Platform Module (TPM) 2.0
Features
Cryptographically Signed Firmware
Secure Boot
System Lockdown

PC Health Monitoring

PC Health Monitoring
Voltage
VBAT, System level control, Supports
system management utility, Monitors
CPU voltages, Memory temperature,
CPU stands, 1972 (Monitor),
3.3V standby, 1.2V (VDIMM), 1.05 (PCH),
1974 Vandby, 549, 1-33, +12V
LED
Remote UID
Temperature
Thermal Control for 5 Fan Connectors
CPU thermal trip support
FAN
Sx4-pin fan headers (up to 5 fans)

FAN 5x4-pin fan headers (up to 5 fans)
5x4-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, Support3-pin fans (w/o
speed control)

connectors, Support 3-pin fans (w/o Other Features UID, RoHS, Node Manager Support, M. 2 NGFF connector, Dual Cooling Zones, Chassis intrusion header, ATX Power connector, ACP Ipower management, 8-pin 12 bV C power connector, 12VDC or ATX Power Source, Intel® QuickAssist Technology

Technology

Operating Environment

Operating Temperature Range

o'C - 60°C (32°F - 140°F)

Non-Operating Temperature Range

-40°C - 85°C (440°F - 185°F)

Operating Relative Humidity Range

10% - 85% (non-condensing)

Non Operating Relative Humidity Range

10% - 95% (non-condensing)

Parts List

1 A3SSV-8C/16C/24C-SPLN10F QUICK REFERENCE GUIDE

CBL-0044L-¢Store (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)

Qty Description

6 57.5CM SATA FLAT S-S PBF

Global SKU (/en/products/SMC_global_skus)