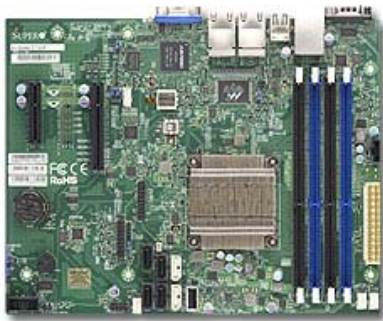


A1SRM-2758F

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Rangeley, Low Power Communication
Intel® QuickAssist Technology

Key Features

1. Intel® Atom processor C2758, SoC, FCBGA 1283, 20W 8-Core
2. Up to 64GB DDR3 1600MHz ECC or non-ECC UDIMM in 4 DIMM sockets
3. Quad GbE LAN ports
4. IPMI with dedicated LAN
5. 2x SATA3 and 4x SATA2 ports
6. 1x PCI-E 2.0 x8, 1x PCI-E 2.0 x4
7. 7x USB 2.0 ports
8. Operating Temperature: 0°C - 60°C
9. 7-Year product life

Links & Resources

- [▶ Tested Memory List](#)
- [▶ Tested HDD / SSD List](#)
- [▶ Motherboard Manual](#)
- [▶ Quick Reference Guide](#)
- [▶ Update Your BIOS](#)
- [▶ IPMI Firmware](#)
- [▶ Download the Latest Drivers and Utilities](#)
- [▶ OS Compatibility](#)

Specifications

Product SKUs	
MBD-A1SRM-2758F -O	▪ A1SRM-2758F (Retail Pack)
MBD-A1SRM-2758F -B	▪ A1SRM-2758F (Bulk Pack)
Physical Stats	
Form Factor	▪ uATX
Dimensions	▪ 9.6" x 7.5" (24.4cm x 19.05cm)
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Intel® Atom™ Processor C2758 ▪ CPU TDP 20W (8-Core) ▪ FCBGA 1283 ▪ System-on-Chip
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 4x 240-pin DDR3 UDIMM socket ▪ Supports up to 64GB DDR3 ECC or non-ECC memory
Memory Type	▪ 1600/1333MHz ECC or non-ECC DDR3 SDRAM, 240-pin gold-plated DIMMs, x8 width only
DIMM Sizes	▪ 16GB, 8GB, 4GB, 2GB
Memory Voltage	▪ 1.5 V, 1.35 V
On-Board Devices	
SATA	<ul style="list-style-type: none"> ▪ SoC SATA3 (6Gbps), SATA2 (3Gbps) ▪ C2000 SoC I354 Quad GbE Controller (MACs)
Network Controllers	<ul style="list-style-type: none"> ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	<ul style="list-style-type: none"> ▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Aspeed AST 2400 BMC
USB 2.0	▪ C2000 SoC
Video	▪ BMC integrated Aspeed AST2400

SuperServers Using A1SRM-2758F	
1U System	▪ SYS-5018A-MHN4
Chassis (Optimized for A1SRM-2758F)	
1U Chassis	▪ CSE-813MTQ-202CB
1U Chassis	▪ SC510 (rev.N required), SC512, SC813M/TQ
2U Chassis	▪ SC823M/TQ
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> ▪ 1x PCI-E 2.0 x8 slot ▪ 1x PCI-E 2.0 x4 slot
System BIOS	
BIOS Type	▪ 128Mb SPI Flash EEPROM with 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
Management	
Software	<ul style="list-style-type: none"> ▪ SuperDoctor® 5 ▪ Watch Dog ▪ NMI
Power Configurations	<ul style="list-style-type: none"> ▪ ACPI / ACPM Power Management ▪ Main Switch Override Mechanism ▪ Power-on mode for AC power recovery
PC Health Monitoring	
Voltage	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +5V Standby, VBAT, Memory Voltages.
FAN	<ul style="list-style-type: none"> ▪ Total of 3x 4-pin fan headers ▪ 3x fans with tachometer status monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control

Input / Output	
Serial ATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 7x USB 2.0 ports (4 rear, 1 Type A, 2 via header)
Serial Port	<ul style="list-style-type: none"> 2x Fast UART 16550 Serial Port (1 rear, 1 via header)
DOM	<ul style="list-style-type: none"> 1x SATA DOM (Disk on Module) power connector
VGA	<ul style="list-style-type: none"> 1x VGA Port
Others	<ul style="list-style-type: none"> TPM 1.2 header

Temperature	<ul style="list-style-type: none"> Pulse Width Modulated (PWM) fan connectors Monitoring for CPU and chassis environment CPU thermal trip support
LED	<ul style="list-style-type: none"> System Overheat LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header Intel® QuickAssist Technology
Operating Temperature	
<ul style="list-style-type: none"> 0°C to 60°C 	

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk Package)			
	Part Number	Qty	Description
Motherboard	MBD-A1SRM-2758F -B	1	A1SRM-2758F Motherboard with passive heat sink
I/O Shield	MCP-260-00042-0N	1	X9 standard I/O Shield
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

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