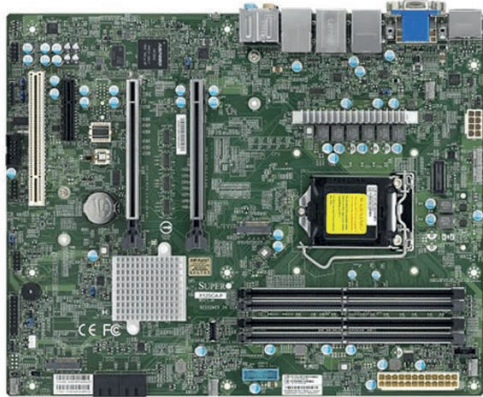


Motherboard

X12SCA-F



Features

- 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® W-1200 Processors.
Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP.
- Intel® W480
- Single LAN with Intel® PHY I219LM LAN controller for AMT/vPro.
Single LAN with Intel® Ethernet i225LM.
- 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots
- 1 PCI-E 3.0 x4,
2 PCI-E 3.0 x16 slots (16/NA or 8/8)
1 - 5V PCI 32bit
M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1
M.2 Form Factor: 2280/22110
M.2 Key: M-Key
- Intel® W480 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- 1 DP (DisplayPort) port, 1 HDMI port, 1 DVI - D port, 1 VGA port, VGA port is dedicated for IPMI

Motherboard	
Model name	MDB-X12SCA-F
Physical Stats	
Form Factor	ATX
Dimensions	12" x 9.6" (30.48cm x 24.38cm)
Operating Environment	
Operating Temperature Range	0°C - 50°C (32°F - 122°F)

Processor/Cache

CPU	• Intel® Xeon® W-1200 Processors, 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor • Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP
Core	Up to 10 cores

System Memory

Memory Capacity	• 4 DIMM slots • 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz
Memory Type	Up to 128GB of ered memory with speeds of up to 2933MHz (2DPC)
DIMM Sizes	2GB, 4GB, 8GB, 16GB, 32GB
Memory Voltage	1.2V

On-Board Devices

Chipset	Intel® W480
SATA	Intel® W480 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2500
Audio	ALC 888S HD Audio
Graphics	VGA port is dedicated for IPMI
Network Controllers	• Single LAN with Intel® Ethernet i225LM • Single LAN with Intel® PHY I219LM LAN controller, for AMT/vPro

Input / Output

LAN	• 1 RJ45 Dedicated IPMI LAN port • 1 RJ45 Gigabit Ethernet LAN ports • 1 RJ45 2.5 Gigabit Ethernet LAN port
USB	• 5 USB 3.2 Gen2 port(s) (3 rear type A; 1 rear type C; 1 via header) • 3 USB 3.2 Gen1 port(s) (1 via header; 2 type A) • 2 USB 2.0 port(s) (2 via header)
Video Output	1 VGA port(s), 1 DP (DisplayPort) port(s), 1 HDMI port(s), 1 DVI - D port(s)
Serial Port / Header	1 COM Port(s) (1 header)
TPM	1 TPM Header

Expansion Slots

PCI-E	• 1 PCI-E 3.0 x4, 2 PCI-E 3.0 x16 slots (16/NA or 8/8) • 1 - 5V PCI 32bit
M.2	• 2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 • Form Factor: 2280/22110 • Key: M-Key

System BIOS

BIOS Type	256MB SPI Flash with AMI BIOS
BIOS Features	• ACPI 6.0 • Plug and Play (PnP) • BIOS rescue hot keys • Riser card auto-detection support • SMBIOS 3.0 or later

Management

Software	SuperDoctor® 5, SUM, SSM, AMT, vPro, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support
System Mangement Software	SuperDoctor 5, IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support, *** OOB Bios refresh is not supported on X12SCA-F
Power Configurations	Power-on mode for AC power recovery, ACPI Power Management, Power supply monitoring, Power button override mechanism, Wake-on-LAN

PC Health Monitoring

Voltage	VBAT, System temperature, PCH temperature, Memory temperature, CPU temperature, 3.3V standby, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, VRM temperature, LAN temperature, CPU thermal trip support, +1.8V PCH, +1.0V PCH
LED	• UID/Remote UID • Power LED • BMC/IPMI Heartbeat LED • Catastrophic Error LED
FAN	• 5x 4-pin fan headers (up to 5 fans) • Fan speed control • Overheat LED indication
Other Features	WOL, UID, RoHS, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ATX Power connector, ACPI power management, 8-pin 12v DC power connector