X12SCA-5F

Workstation

Key Features

10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor, 11th Generation Intel® Core™ i5/i7/i9 Processors, Intel® Xeon® W-1200 Processors, Intel® Xeon® W-1300 Processors
Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP

Intel® W580

Single LAN with Intel® Ethernet i225LM
Single LAN with Intel® PHY I219LM LAN controller
for AMT/vPro
Single LAN with RTL8211
Dedicated LAN for IPMI

2 PCI-E 4.0 x16 slots (16/NA or 8/8)2 PCI-E 3.0 x1
1 - 5V PCI 32bit

M.2 Interface: 1 PCI-E 4.0 x4 and 2 PCI-E 3.0 x4, RAID 0 & 1
M.2 Form Factor: 2280/22110
M.2 Key: M-Key
RAID 5 only applied for INTEL Storage Device, M.2-M3 is limited with 10th Gen CPU and W-1200 CPU

128GB Unbuffered ECC/non-ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots

Intel® W580 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 DP 1.4a port, 1 HDMI 2.0b port, 1 DVI - D port, 1 VGA port

Product SKUs

MBD-X12SCA-5F	- X12SCA-5F

Physical Stats

Form Factor	- ATX
Dimension	- 12" x 9.6" (30.48cm x 24.38cm)

Processor

CPU	- 11th Generation Intel® Core™ i5/i7/i9 Processors, Intel® Xeon® W-1200 Processors, Intel® Xeon® W-1300 Processors, 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 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 ECC/non-ECC UDIMM, DDR4-3200MHz
Memory Type	- 128GB 3200MHz
DIMM Sizes	- 2GB, 4GB, 8GB, 16GB, 32GB
Memory Voltage	- 1.2V

On-Board Devices

Chipset	- Intel® W580
SATA	- Intel® W580 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	- ASPEED AST2500 BMC
Audio	- ALC 888S HD Audio
Network Controllers	- Single LAN with Intel® PHY I219LM LAN controller, for AMT/vPro - Single LAN with Intel® Ethernet i225LM - Single LAN with Realtek RTL8211F PHY (dedicated IPMI), Dedicated LAN for IPMI

Input / Output

LAN	- 1 RJ45 Dedicated IPMI LAN port - 1 RJ45 Gigabit Ethernet LAN ports - 1 RJ45 2.5 Gigabit Ethernet LAN port
USB	- 4 USB 3.2 Gen2 port(s) (4 rear type A) - 2 USB 3.2 Gen1 port(s) (2 via header) - 2 USB 2.0 port(s) (2 via header) - 2 USB 3.2 Gen2x2 port(s) (1 rear type C; 1 via header)
Video Output	- 1 VGA port(s), 1 DVI - D port(s), 1 DP 1.4a port(s), 1 HDMI 2.0b port(s)
Serial Port	- 1 COM Port(s) (1 header)
TPM	- 1 TPM Header

Expansion Slots

PCI-E	- 2 PCI-E 4.0 x16 slots (16/NA or 8/8), - 2 PCI-E 3.0 x1 - 1 - 5V PCI 32bit
M.2	- M.2 Interface: 1 PCI-E 4.0 x4, RAID 0 & 1; 2 PCI-E 3.0 x4 - 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 (*** OOB Bios refresh is not supported on X12SCA-5F)
System Management Software	- SuperDoctor 5
Power Configurations	- Power-on mode for AC power recovery, ACPI Power Management, Power button override mechanism, Wake-on-LAN

PC Health Monitoring

Voltage	- VBAT, System temperature, PCH temperature, CPU temperature, 3.3V standby, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +1.8V PCH
LED	- 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	- 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

Operating Environment

Operating Temperature Range	- 0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range	- -20°C - 60°C (-4°F - 140°F)