

**KYPUS™**  
NOVA DEVICES



**KYPUS DB SERVER**  
SERVIDOR DE BASE DE DATOS KYPUS

Powered by SuperMicro™



## Mainboard Key Features

Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5,  
Intel® 7th/6th Gen. Core™ i3 series,  
Intel® Celeron® and Intel® Pentium®

Intel® C232 chipset

Up to 64GB Unbuffered ECC UDIMM DDR4 2133MHz; 4 DIMM slots

Expansion slots:

1 PCI-E 3.0 x8 (in x16),

1 PCI-E 3.0 x4 (in x8),

1 PCI-E 3.0 x1

Single GbE LAN with Intel® i210-AT

6 SATA3 (6Gbps) via C232; RAID 0, 1, 5, 10

8 SAS3 (12Gbps) via LSI 3008; RAID 0, 1, 10

I/O: 1 VGA, 2 COM, TPM header

2 SuperDOM with built-in power

5 USB 3.0 (2 rears, 2 via headers, 1 Type A),

6 USB 2.0 (2 rears, 4 via headers)

### OS

UBUNTU server

### RAM

8 Gb

### HDD

3 SATA 500GB RAID

### Processor

Intel® Xeon® processor E3-1200 v5

### Power Supply

1U 720W Redundant Power Supply W/ PMbus 80Plus Gold



## Specifications

### Product SKUs

- MBO-X11SSL-CF • X11SSL-CF (Bulk Pack)

### Physical Stats

- Form Factor • Micro-ATX
- Dimensions • 9.6" x 9.6" (24.38cm x 24.38cm)

### Processor/Cache

- CPU
  - Intel® 7th/8th Generation Core i3 series
  - Intel® Celeron®
  - Intel® Pentium®
  - Intel® Xeon® processor E3-1200 v5 series
  - Socket H4 (LGA 1151) supported; CPU TDP support 80W
- Note
  - BIOS version 2.0 or above is required to support Kaby Lake processors

### System Memory

- Memory Capacity • 64GB Unbuffered ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots
- Memory Type • 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
- DIMM Sizes • 4GB, 8GB, 16GB
- Memory Voltage • 1.2V
- Error Detection
  - Corrects single-bit errors
  - Detects double-bit errors (using ECC memory)

### On-Board Devices

- Chipset • Intel® C232
- SATA • Intel® C232 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- SAS • LSI3008 controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10
- Network Controllers • Dual LAN with Intel® Ethernet Controller I210-AT
- Graphics • Aspeed AST2400 BMC

### Input / Output

- USB
  - 6 USB 2.0 ports (2 rear, 4 via header(s))
  - 5 USB 3.0 ports (2 rear, 2 via header(s), 1 Type A)
- Video Output
  - 1 VGA
  - 1 Aspeed AST2400 BMC
- Serial Port / Header
  - 2 COM Ports (1 rear, 1 header(s))
- TPM • TPM Header

### Expansion Slots

- PCI-E
  - 1 PCI-E 3.0 x8 (in x16 slot)
  - 1 PCI-E 3.0 x4 (in x8 slot)
  - 1 PCI-E 3.0 x1

### System BIOS

- BIOS Type
  - 128Mb SPI Flash EEPROM with AMI BIOS
  - ACPI 1.0 / 2.0 / 3.0 / 4.0
  - APM 1.2
  - DMI 2.3
  - Hardware BIOS Virus protection
- BIOS Features
  - PCI 2.3
  - Plug and Play (PnP)
  - RTC (Real Time Clock) Wakeup
  - SMBIOS 2.7.1
  - UEFI 2.3.1
  - USB Keyboard support

### Management

- Software
  - IPMI 2.0, NMI, SSM, SUM, SuperDoctor® 5, Watchdog
- Power Configurations
  - ACPI Power Management
  - Power-on mode for AC power recovery

### PC Health Monitoring

- Voltage
  - +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
- FAN
  - 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
- Temperature
  - CPU thermal trip support
  - Monitoring for CPU and chassis environment
  - PECI
  - Thermal Monitor 2 (TM2) support
- LED
  - UID/Remote UID
  - CPU / System Overheat LED
- Other Features
  - Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL

### Operating Environment

- Operating Temperature Range
  - 0°C ~ 50°C (32°F ~ 122°F)
- Non-Operating Temperature Range
  - -40°C - 70°C (-40°F - 158°F)
- Operating Relative Humidity Range
  - 8% - 90% (non-condensing)
- Non-Operating Relative Humidity Range
  - 5% - 95% (non-condensing)