C236M WORKSTATION

(MS-7972v2.1)
m-ATX Motherboard

Motherboard Components Overview

JPWR2
CPU Socket
CPUFAN1
DIMM1
DIMM2
DIMM3
DIMM4
SYSFAN2
JPWR1
JUSB3
PCI_E1
SE1_21-SATA43
PCI_E2
JSPI1
PCI_E3
SATA5_6
JTBT1
JCOM1
JBAT1
JCI1
JFP2
JFP1
JAUD1
SYSFAN1
JTPM1
JUSB1
JUSB2

Rear I/O Panel

PS/2 Port
VGA Port
USB 3.1 Gen1 Ports
LAN Port
Audio Ports
USB 2.0 Ports
DVI Port
HDMI
USB 3.1 Gen1 Ports
Optical S/PDIF-Out
Clear CMOS
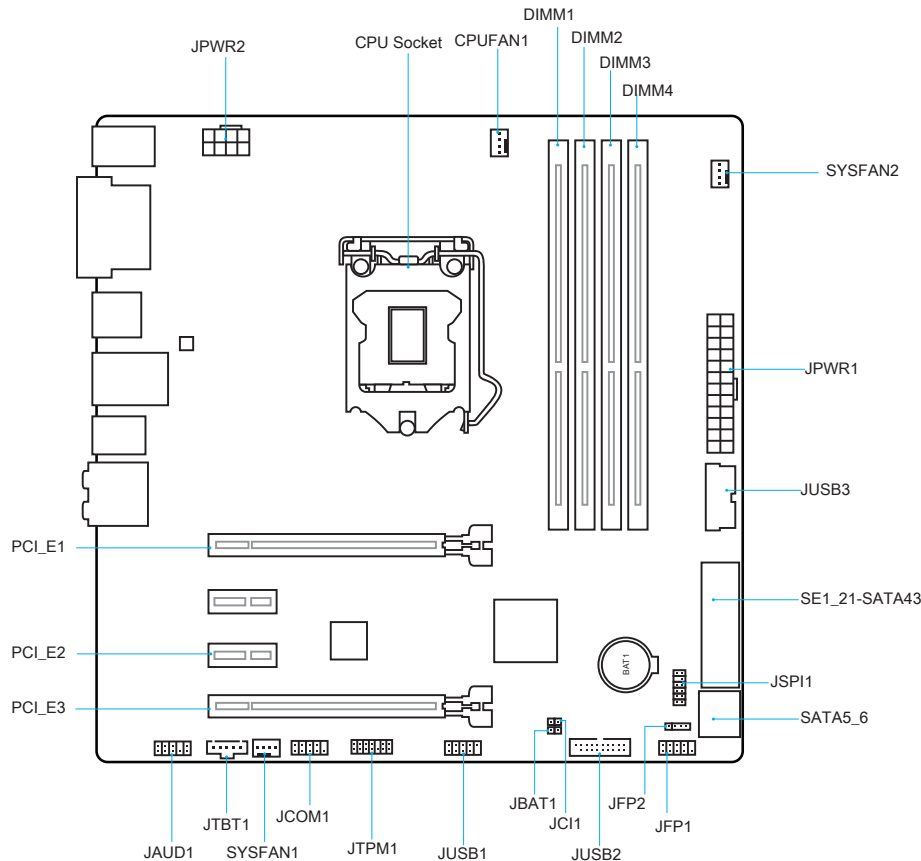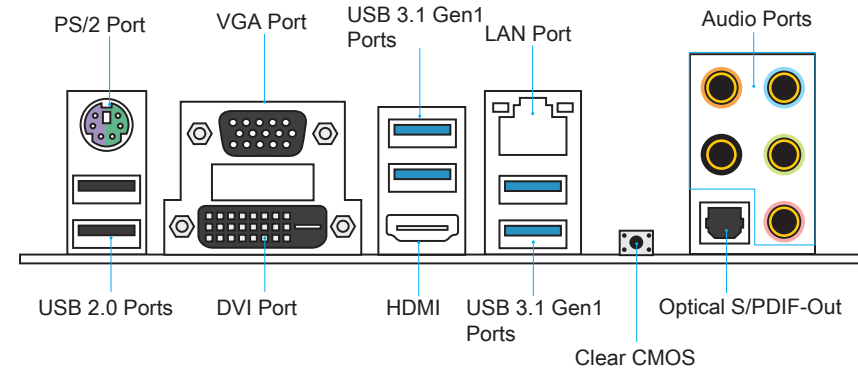
Motherboard Specification

CPU Support
- Supports Intel® Xeon® E3-1200 v5 series processors, Core™ i3 processors, and Intel® Pentium® and Celeron® processors for Socket LGA1151

Chipset
- Intel® C236 Express Chipset

Memory Support
- 64GB
  ‣ Supports DDR4 2133 MHz
- Dual channel memory architecture
- Supports ECC, un-buffered memory*
- Supports Intel Extreme Memory Profile (XMP)**

  * Please refer www.msi.com for more information on compatible memory.

  ** DDR4 2133 MHz and higher memory modules will only run at maximum of DDR4 2133 MHz on XMP mode due to Intel chipset limitation.

Expansion Slots
- 2x PCIE 3.0x16
- 2x PCIE 3.0x1

Onboard Graphics
- 1x HDMI port, supporting a maximum resolution of 4096x2160@24Hz, 2560x1600@60Hz
- 1x VGA port, supporting a maximum resolution of 2048x1536@50Hz, 2048x1280@60Hz, 1920x1200@60Hz
- 1x DVI-D port, supporting a maximum resolution of 1920x1200 @60Hz

Multi-GPU Support
- Supports 2-Way AMD® CrossFire™ Technology[1]

Storage
- Intel C236 Express Chipset
- 6x SATA 6Gb/s ports

[1]   Supports Windows 7,Windows 8/ 8.1 and Windows 10.

- 1x SATA Express port (PCIe 3.0 x2)
- Supports RAID 0, RAID1, RAID 5 and RAID 10
- Supports Intel Smart Response Technology, Intel® Rapid Start Technology and Intel Smart Connect Technology[2]

USB
- Intel C236 Express Chipset
- 8x USB 3.1 Gen1 (SuperSpeed USB) ports (4 ports on the back panel, 4 ports available through the internal USB connectors)
- 4x USB 2.0 ports (2 ports on the back panel, 2 ports available through the internal USB connectors)

Audio
- Realtek® ALC892 Codec
- 7.1-Channel High Definition Audio
- Supports S/PDIF OUTPUT

LAN
- 1x REALTEK/RTL 8111H Gigabit LAN controller

Back Panel Connectors
- 1x PS/2 mouse/ keyboard combo port
- 2x USB 2.0 ports
- 4 USB 3.1 Gen1 (SuperSpeed USB) ports
- 1x VGA port
- 1x HDMI port
- 1x DVI port
- 1x Clear CMOS button
- 1x LAN (RJ45) port
- 1x Optical S/PDIF-Out
- 5x OFC audio jacks

Internal Connectors
- 1x 24-pin ATX main power connector
- 1x 8-pin ATX 12V power connector
- 6x SATA 6Gb/s connectors
- 1x USB 2.0 connector (supports additional 2 USB 2.0 ports)

2   Supports Intel Core processors on Windows 7,Windows 8/ 8.1 and Windows 10.

- 2x USB 3.1 Gen1 (SuperSpeed USB) connectors (supports additional 4 USB 3.1 Gen1 (SuperSpeed USB) ports)
- 1x 4-pin CPU fan connector
- 2x 4-pin system fan connectors
- 1x Clear CMOS jumper
- 1x Front panel audio connector
- 2x System panel connectors
- 1x TPM module connector
- 1x Chassis Intrusion connector
- 1x Serial port connector
- 1x TBT pinheader

I/O Controller
- NUVOTON NCT6793 Controller Chip

Hardware Monitor
- CPU/System temperature detection
- CPU/System fan speed detection
- CPU/System fan speed control

BIOS Features
- 1x 128 Mb flash
- UEFI AMI BIOS
- ACPI 5.0, PnP 1.0a, SM BIOS 2.7, DMI 2.0
- Multi-language

Special Features
- Click BIOS 5
- Debug LED (for CPU,DRAM,VGA)
- Smart Fan Control
- USB 3.1 Gen1 (SuperSpeed USB)

Software
- Command Center
- RAMDisk
- Live Update 6
- Fast Boot
- Super Charger
- Intel Extreme Tuning Utility
- Norton Internet Security Solution

- Google Chrome
- Google Toolbar
- Google Drive
- M-Cloud

Form Factor
- m-ATX Form Factor
- 24.38 cm x 24.38 cm