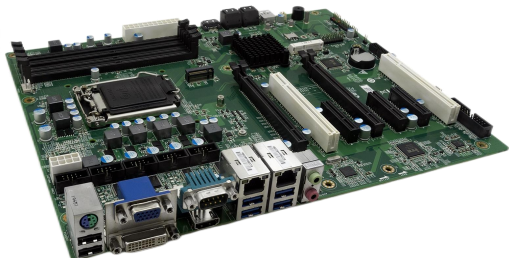## AIoT0-C236 — Standard ATX industrial motherboard

AIoT0-C236 motherboard is a standard ATX industrial motherboard , using Intel ® C236 chipset, with rich external interfaces, can be widely used in multi-GPU extended artificial intelligence, machine vision assisted manufacturing (such as automatic detection, automatic image analysis and processing), deep learning, etc.
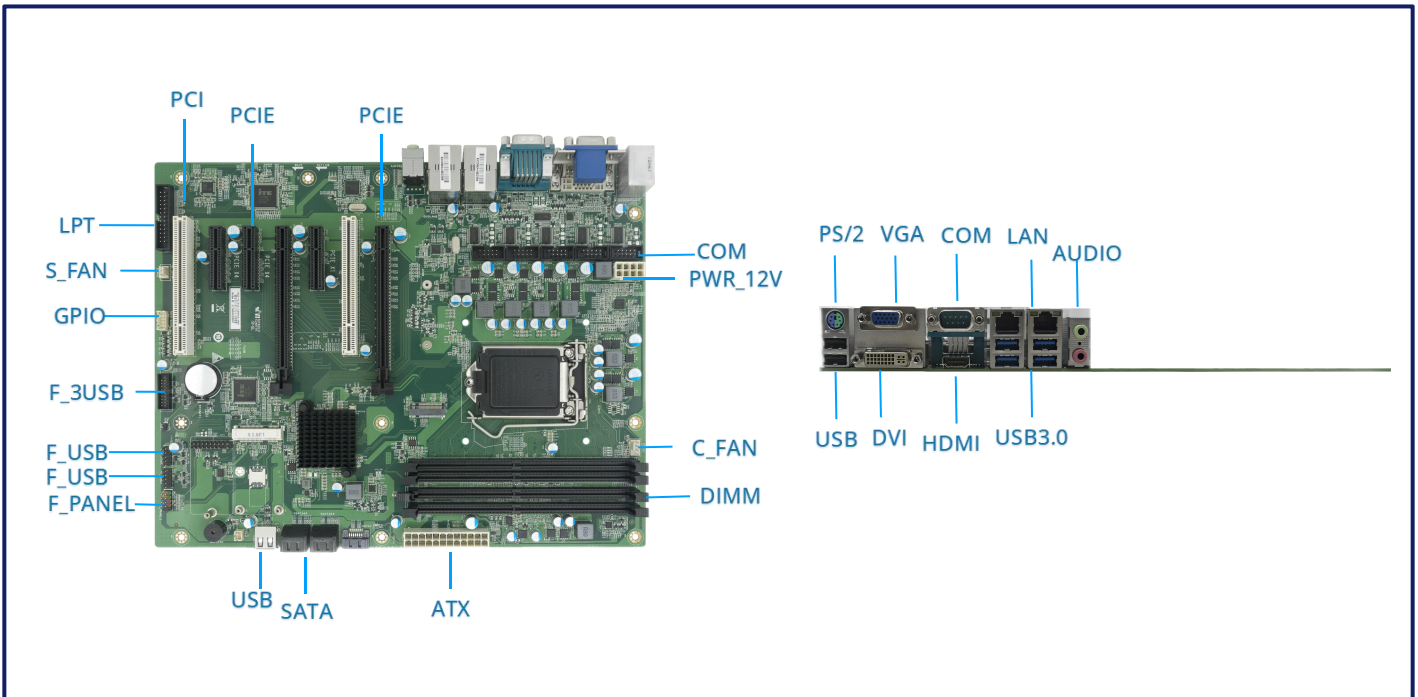
- Supports Intel LGA1151 packaging, E3/E/i9/i7/i5/i3/G series CPUs for Gen.6,7,8,9
- Four DDR4 U-DIMM memory slots support up to 64GB
- Triple-display / 4SATA / 2 GbE / 13USB / 6COM / 2 PCI / 5 PCIe
- Using high Tg grade PCB boards to ensure wide temperature stability
- Industrial grade IO protection device, blocking ESD and surges, ensuring system stability and reliability
- Optimized interface and expansion layout effectively avoid interference and facilitate expansion for industry users
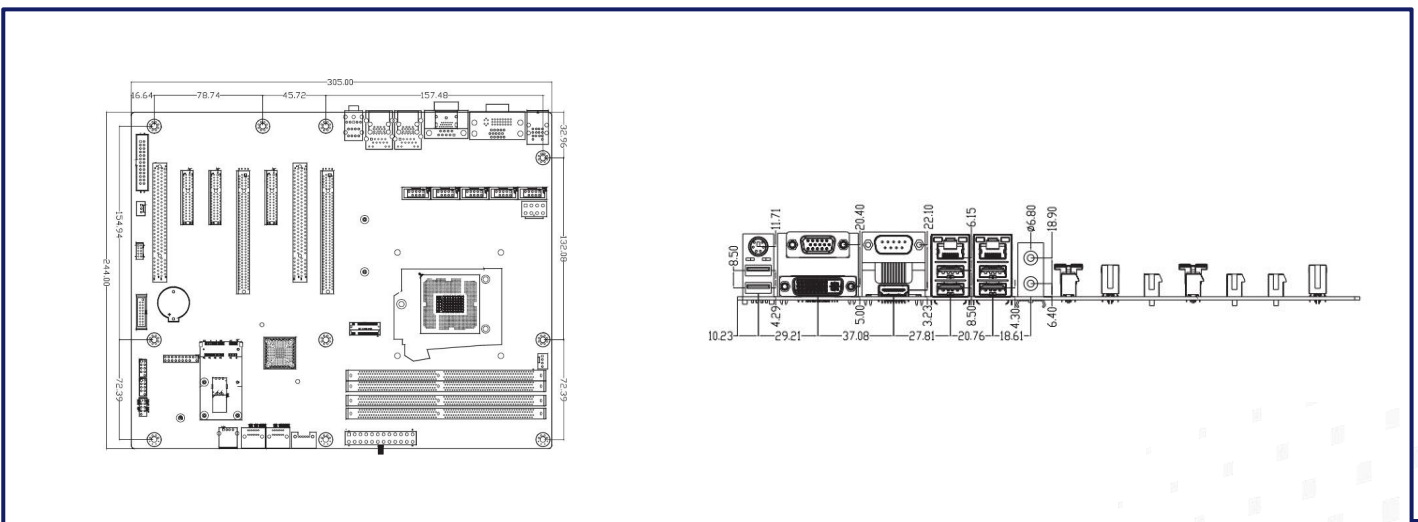- Supports dual GPU card expansion, empowering AI and MV applications

01 Specifications

CPU	Supports Intel LGA1151 packaging, E3/E/i9/i7/i5/i3/G series CPUs for Gen.6,7,8,9
Chipset	The Intel ® C236 chipset
Memory	4*288Pin DDR4 U-DIMM memory slot, maximum support of 64GB Depending on the different CPU , support DDR 4-2133, DDR 4-2400, DDR 4-2666
Display controller	Intel CPU Integrated display controller (depending on the assigned CPU)
Display interface	Three display output DVI-D + VGA + HDMI, support independent triple display
Storage	4 SATA 3.0 support SATA RAID 0 / 1 / 5 / 10,1 M. The 2 2280 socket supports the SATA bus SSD
Audio	Support for MIC-in, Speaker-out
Network	AIoT0-C236-1，LAN1: i219V, LAN2: RTL8111H AIoT0-C236-2，LAN1: i219V, LAN2: Intel i225V AIoT0-C236-3，LAN1: i219V, LAN2: Intel i210AT
USB	6 rear IO USB（4 x USB 3.0 Type-A and 2 USB 2.0 Type-A ） 7 intenal USB（2 x USB 3.0 via header, 4 x USB 2.0 via header, 1 x USB 2.0 Type-A)
Parallel/I²C/SMBus	1 * parallel port
Serial port	6 Serial port (COM1 supports RS232 / 422 / 485, COM2-6 supports RS232)
Keyboard & mouse	1 PS/2 keyboard and mouse, 2-in-1 connector on rear IO
Digital I/O	8-digit I / O, providing power and ground, + 5V level
LPC/eSPI	Provide 1 LPC local bus interface for the extensible four-serial port module
TPM interface	The reserved LPC interface supports the secure encryption module
Power supply	ATX power Socket, supports ATX/AT On/Off mode
Expansion bus	2 PCIe3.0 x16 (x8 signals), 2 PCIe3.0 x4,1 PCIe3.0 x4 (x1 signals) 2 PCI (32 bits), 1 Mini-PCIe (support for SIM card socket to support 4G module)
Operating temperature and humidity	0~60 ° C, 5%~95% no condensation
Non-operating temperature and humidity	-40~80 ° C, 5%~95% without condensation
Watch Dog	255 level programmable seconds / minute, support timeout interruption or system reset
BIOS	AMI UEFI BIOS
Operating System	Support for Win7 x32, Win7 x64, Win10 x64, Ubuntu 18.04 or later
PCB dimensions (L*W)	305mm X 244mm

02 Product view

PCI
PCIE
PCIE
LPT
S_FAN
GPIO
F_3USB
F_USB
F_USB
F_PANEL
COM
PWR_12V
C_FAN
DIMM
USB
SATA
ATX

PS/2   VGA   COM   LAN   AUDIO
USB   DVI   HDMI   USB3.0

03 Dimensions

04 Product Selection

Product model	Chipset	Memory	Display	Storage	USB3	USB2	COM	LAN	PCI	PCIe
AIoT0-C236-1	C236	4*DDR4	3(3)	4*SATA	6	7	6	2	2PCI	5PCIe
AIoT0-C236-2	C236	4*DDR4	3(3)	4*SATA	6	7	6	2	2PCI	5PCIe
AIoT0-C236-3	C236	4*DDR4	3(3)	4*SATA	6	7	6	2	2PCI	5PCIe

Note: AIoT0-C236-1,   LAN1: i219V, LAN2: RTL8111H
        AIoT0-C236-2,   LAN1: i219V, LAN2: Intel i225V
        AIoT0-C236-3,   LAN1: i219V, LAN2: Intel i210AT