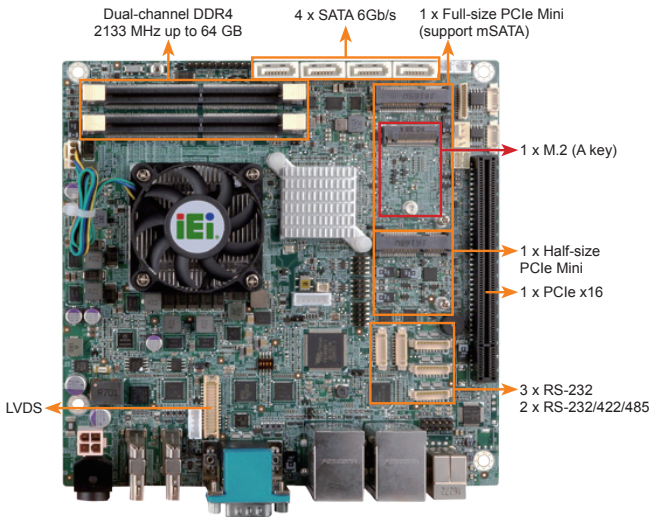
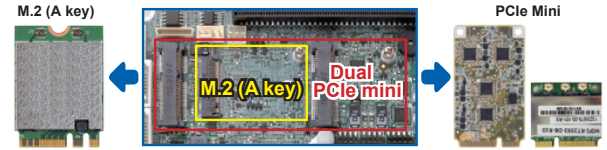


# KINO-DCM236

Mini-ITX SBC supports 6th Intel® Xeon® Processor E3 v5 series, Core™ i3, Celeron® per Intel® CM236, DDR4 with ECC support, HDMI 2.0, dual Intel® GbE, SATA 6Gb/s, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS



## Flexible Selection of Modules with Different Functions

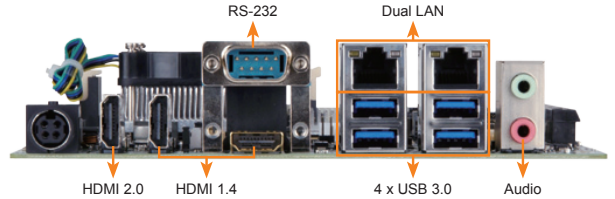


## SO-DIMM DDR4 ECC support



## Specifications

- ◆ CPU
  - 6th generation Intel® processor
  - Intel® Xeon® processor E3-1505M v5 (up to 3.7GHz, quad-core, 8M Cache, TDP=45W)
  - Intel® Xeon® processor E3-1505L v5 (up to 2.0GHz, quad-core, 8M Cache, TDP=25W)
  - Intel® Core™ i3-6102E processor (up to 1.90GHz, dual-core, 3M cache, TDP=25W)
  - Intel® Celeron® processor G3902E (up to 1.60GHz, dual-core, 2M cache, TDP=25W)
- ◆ Chipset: Intel® CM236
- ◆ BIOS: AMI BIOS
- ◆ Memory
  - Two 260-pin 2133/1866 MHz dual-channel DDR4 ECC and non-ECC unbuffered SDRAM SO-DIMMs support up to 64GB
- ◆ Graphics Engine
  - Intel® HD Graphics Gen 9 support for DX11/12, OCL 2.x, OGL 4.3/4.4, ES 2.0
- ◆ Display Output
  - Triple independent display
  - 2 x HDMI 1.4 (up to 4096x2160@24Hz)
  - 1 x HDMI 2.0 (up to 4096x2160@60Hz)
  - 1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
- ◆ Ethernet
  - LAN1: Intel® I219LM with (Intel® AMT 11.0 support)
  - LAN2: Intel® I211 PCIe controller with NCSI support
- ◆ External I/O Interface
  - 4 x USB 3.0
  - 1 x RS-232
- ◆ Internal I/O Interface
  - 1 x KB/MS (1x6 pin, P=2.0)
  - 4 x SATA 6G/s (RAID 0/1/5/10 support)
  - 2 x RS-232/422/485 (1x9 pin, P=1.25)
  - 4 x USB 2.0 (2x4 pin, P=2.0)
  - 3 x RS-232 (1x9 pin, P=1.25)
- ◆ Audio
  - Realtek ALC662 HD Audio codec supports 5.1-channel
  - 2 x Audio jacks (line-out, mic-in) on rear IO
  - 1 x Front audio (2x5-pin)
- ◆ Front Panel
  - 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Expansion
  - 1 x PCIe x16 slot
  - 1 x Full-size PCIe Mini card slot (support mSATA)
  - 1 x M.2 2230 (A key)
  - 1 x Half-size PCIe Mini card slot
- ◆ Cooler Module
  - 19100-000219-00-RS for Intel® Xeon® E3-1505M v5 (45W)
  - 19100-000203-00-RS for Intel® Xeon® E3-1505L v5/Core™ i3/Celeron® (25W)
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset by super I/O
- ◆ Chassis Intrusion Detection: 1 x Chassis intrusion connector (1x2 pin)
- ◆ Power Supply
  - 12V DC input
  - 1 x External DC jack (4-pin DIN)
  - 1 x Internal power connector (2x2 pin)
  - Support AT/ATX mode
- ◆ Fan Connector
  - 1 x CPU smart (1x4 pin)
  - 1 x System fan (1x4 pin)
- ◆ Power Consumption
  - 12V@6.93A (Intel Xeon E3-1505M V5 2.8GHz CPU with 32 GB (two 16 GB) 2133 MHz DDR4 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170 mm
- ◆ Weight: GW: 900g / NW: 450g



## Features

- Mini ITX form factor with 6th Intel® Xeon® Processor E3 v5 series, Core™ i3, Celeron® support DDR4-2133 memory with ECC support
- HDMI 2.0
- ECC support
- Triple display with independent audio
- PCIe x16, dual PCIe Mini and M.2 A key feature support for various function module
- Rich High speed I/O interface for USB 3.0 and SATA 6Gb/s
- Support IEI jumpless

## Packing List

1 x KINO-DCM236 single board computer with CPU cooler	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
2 x SATA cable	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-DCM-236-E3-R10	Mini-ITX SBC supports 6th Intel® Xeon® processor E3-1505M v5 (45W), DDR4 with ECC support, HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
KINO-DCM-236-E3E-R10	Mini-ITX SBC supports 6th Intel® Xeon® processor E3-1505L v5 (25W), DDR4 with ECC support, HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
KINO-DCM-236-i3E-R10**	Mini-ITX SBC supports 6th Intel® Xeon® Core™ i3-6102E processor (25W), DDR4 with ECC support, HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
KINO-DCM-236-CE-R10**	Mini-ITX SBC supports 6th Intel® Celeron® processor G3902E (25W), DDR4 with ECC support, HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
32000-023800-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0
32001-008600-200-RS	Dual-port USB cable, 210mm, P=2.0
32005-000900-200-RS	RS-232/422/485 cable, 100mm, P=1.25

\*\*By order production, MOQ: 100