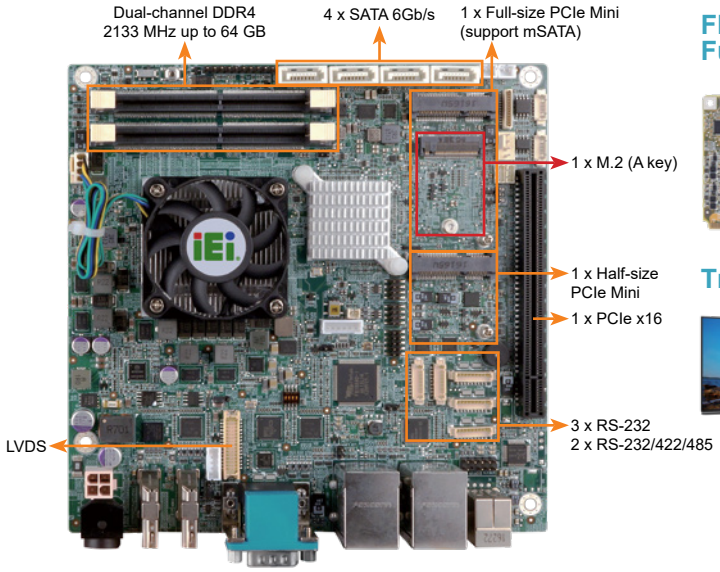
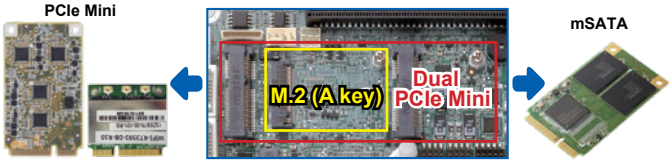
KINO-DQM170

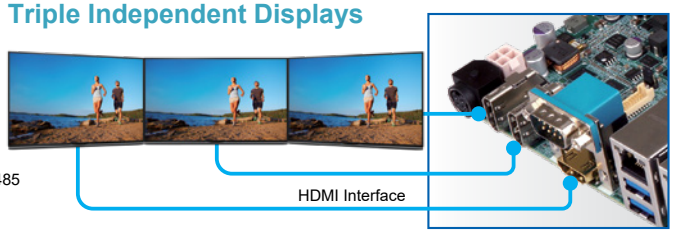
Mini-ITX SBC supports 6th Intel® Core™ Mobile CPU, HDMI 2.0, M.2, SATA 6Gb/s, dual Intel® GbE, USB 3.2 Gen 1 (5Gb/s), PCIe Mini, HD Audio and RoHS

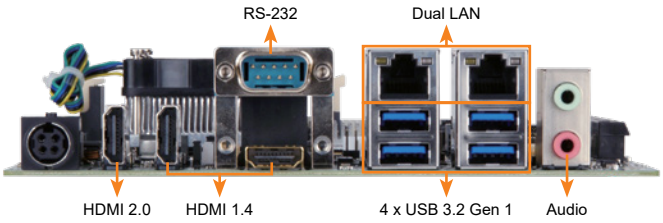


Flexible Selection of Modules with Different Functions



Triple Independent Displays





Specifications

- CPU
  6th generation Intel® Core™ mobile processor
  Intel® Core™ i3-6102E (up to 1.90GHz, dual-core, 3M cache, TDP=25W)
- Chipset: Intel® QM170
- BIOS: UEFI BIOS
- Memory
  Two 260-pin 2133/1866 MHz dual-channel unbuffered DDR4 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 3.2 Gen 1 (5Gb/s)
  1 x RS-232
- Internal I/O Interface
  1 x KB/MS (1x6 pin, P=2.0)
  2 x RS-232/422/485 (1x9 pin, P=1.25)
  3 x RS-232 (1x9 pin, P=1.25)
  4 x SATA 6Gb/s (RAID 0/1/5/10 support)
  4 x USB 2.0 (2x4 pin, P=2.0)
- Audio
  Realtek ALC888S HD Audio codec supports 7.1-channel
  2 x audio jacks(line out, mic in) on rear I/O (colay with 3x audio jack)
  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 M.2 2230 (A key)
  1 x Full-size PCIe Mini card slot (support mSATA)
  1 x Half-size PCIe Mini card slot
- Cooler Module
  19100-000219-00-RS for Intel® Core™ i7/i5 (45W)
  19100-000203-00-RS for Intel® 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@5.08A (Intel® Core™ i7-6820EQ, 3.5GHz CPU with 16 GB (two 8 GB) 2133 MHz DDR4 memory)
- Operating Temperature: -20°C ~ 60°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 170mm x 170 mm
- Weight: 900g / NW: 450g
- CE/FCC compliant

Features

- Mini ITX form factor with 6th Gen Intel® Core™ i7/i5/i3/Celeron® processor support DDR4 memory
- Support HDMI 2.0 (4096x2160@60Hz)
- Triple display with independent audio via HDMI
- PCIe x16, dual PCIe Mini and M.2 A key feature support for various function module
- Rich High speed I/O interface for USB 3.2 Gen 1 (5Gb/s) and SATA 6Gb/s
- Support IEI jumpless

Packing List

1 x KINO-DQM170 single board computer with CPU cooler
2 x SATA cable
1 x I/O shielding
1 x QIG

Ordering Information

Part No.	Description
KINO-DQM170-i3E-R11	Mini-ITX SBC with BGA 1440 supports 6th Gen Intel® Core™ i3-6102E processor, HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.2 Gen 1 (5Gb/s), PCIe Mini, M.2, HD Audio and RoHS
32001-008600-200-RS	Dual-port USB cable, 210mm, P=2.0
32001-008600-200-RS	Dual-port USB cable, 210mm, P=2.0
32005-003501-200-RS	RS-232/422/485 cable, 150mm, P=1.25
32006-001100-201-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0