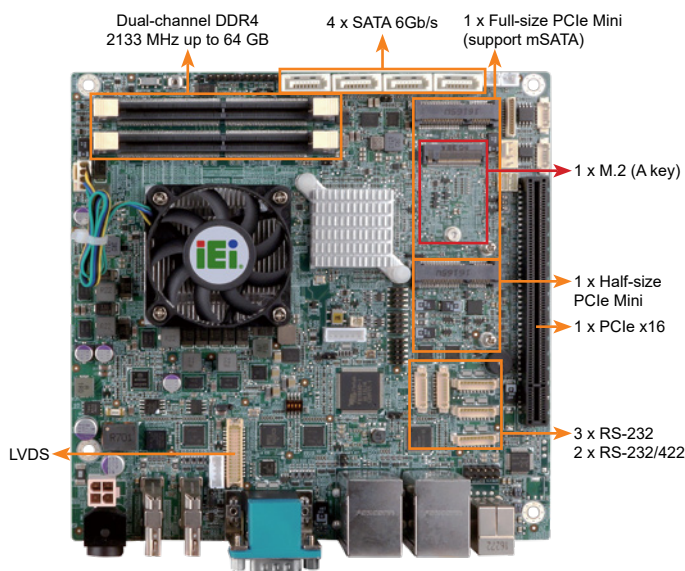
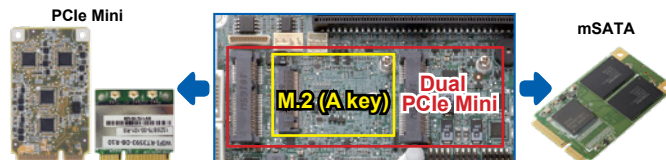


KINO-DQM170

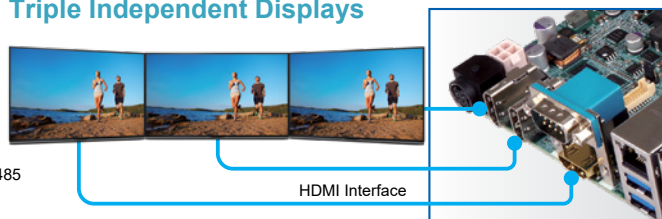
Mini-ITX SBC supports 6th Intel® Core™ Mobile CPU, HDMI 2.0, M.2, SATA 6Gb/s, dual Intel® GbE, USB 3.2 Gen 1 (5Gb/s), PCIe Mini, HD Audio and RoHS



Flexible Selection of Modules with Different Functions

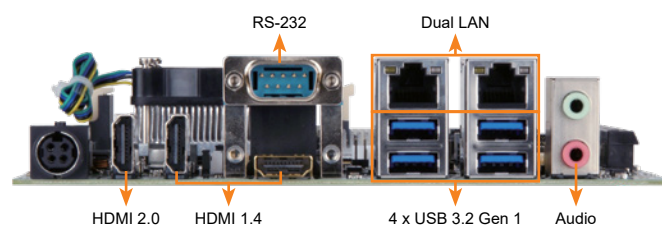


Triple Independent Displays



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) 4 x SATA 6Gb/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 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 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® 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
32005-003500-200-RS	RS-232/422/485 cable, 250mm, P=1.25
32006-001100-201-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0