

# KINO-DQM170

Mini-ITX SBC supports 6th Intel® Core™ Mobile CPU



## 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 3.0 and SATA 6Gb/s
- » Support IEI jumpless

## Specifications

System	
CPU	6th generation Intel® Core™ mobile processor
	Intel® Core™ i7-6820EQ (up to 3.5GHz, quad-core, 8M cache, TDP=45W)
	Intel® Core™ i5-6440EQ (up to 3.4GHz, quad-core, 6M cache, TDP=45W)
	Intel® Core™ i3-6102E (up to 1.90GHz, dual-core, 3M cache, TDP=25W)
	Intel® Celeron® G3902E (up to 1.60GHz, dual-core, 2M cache, TDP=25W)
Chipset	Intel® QM170
Memory	Two 260-pin 2133/1866 MHz dual-channel unbuffered DDR4 SDRAM SO-DIMMs
Memory Max.	64GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	170 X 170
Net Weight	450g
Storage	
Storage	4 x SATA :6Gb/s(RAID 0/1/5/10 support)
I/O Interface	
Display Output	3 x HDMI :2 X 1.4 (up to 4096x2160@24Hz); 1 X 2.0(up to 4096x2160@60Hz); 1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz)
Ethernet	2 x LAN :LAN1: Intel® I219LM with (Intel® AMT 11.0 support) LAN2: Intel® I211 PCIe controller with NCSI support
Audio	Description: Realtek ALC662 HD Audio codec supports 5.1-channel 1 x Line out :on rear IO(colay wirh 3 X audio jack) 1 x Mic :on rear IO(colay wirh 3 X audio jack) 1 x Front Audio :2x5 pin
I/O Interface	1 x External RS-232 3 x Internal RS-232 :1x9 pin, P=1.25 2 x Internal RS-232/422/485 :1x9 pin, P=1.25 4 x External USB 3.2 Gen1x1 4 x Internal USB 2.0 :2x4 pin, p=2.0

	1 x PS/2 :1x6 pin, p=2.0
Expansion	1 x PCIe x16
	2 x PCIe mini Card Slot :1 x Full-size slot(support mSATA), 1 X Half-size slot
	1 x M.2(NGFF) :2230(A key)
<b>Power</b>	
Power Consumption	12V@5.08A (Intel® Core™ i7-6820EQ, 3.5GHz CPU with 16 GB (two 8 GB) 2133 MHz
	DDR4 memory)
Power Supply	12V DC input
	1 x External DC jack (4-pin DIN)
	1 x Internal power connector (2x2 pin)
	Support AT/ATX mode
<b>Environment</b>	
Operating Temperature	-20°C ~ 60°C
Humidity	5% ~ 95%, non-condensing
<b>Certifications</b>	
Safety & EMC	CE/FCC compliant

## Ordering Information

KINO-DQM170-i7-R10	Mini-ITX SBC supports 6th Intel® Core™ i7-6820EQ processor(45W), HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
KINO-DQM170-i5-R10	Mini-ITX SBC supports 6th Intel® Core™ i5-6440EQ processor(45W), HDMI 2.0, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
KINO-DQM170-i3E-R10	Mini-ITX SBC supports 6th Intel® Core™ i3-6102E processor(25W), HDMI 2.0, SATA 6Gb/s, dual Intel®GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS
KINO-DQM170-CE-R10	Mini-ITX SBC supports 6th Intel® Celeron® Processor G3902E(25W), HDMI 2.0, SATA 6Gb/s, dual Intel®GbE, USB 3.0, PCIe Mini, M.2, HD Audio and RoHS

## Packing List

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