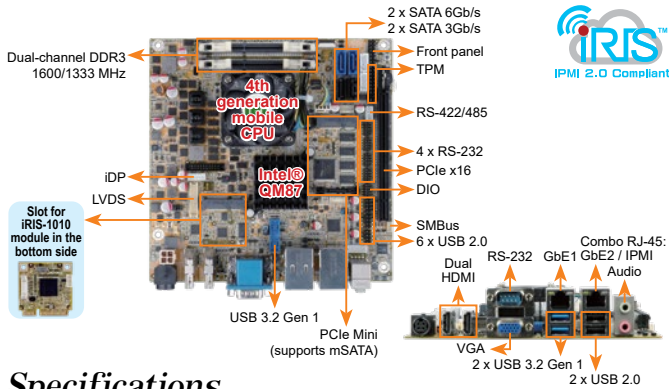


KINO-DQM871-i1

Mini-ITX SBC supports 4th generation 22nm Intel® mobile processors, HDMI/ VGA/LVDS/DP, dual Intel® PCIe GbE, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, iRIS-1010, audio and RoHS



Specifications

- CPU**
Intel® mobile Core™ i7-4700EQ on-board processor with Intel® AMT 9.0 support (2.4GHz, quad-core, 6MB cache, TDP=47W)
Intel® mobile Core™ i5-4402E on-board processor with Intel® AMT 9.0 support (1.6GHz, dual-core, 3MB cache, TDP=25W)
Intel® mobile Core™ i5-4400E on-board processor with Intel® AMT 9.0 support (2.7GHz, dual-core, 3MB cache, TDP=37W) (by request)
- Chipset:** Intel® QM87
- Memory:** Two 204-pin 1600/1333 MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 16 GB
- BIOS:** UEFI BIOS
- Ethernet**
LAN1: Intel® I217LM with Intel® AMT 9.0 support
LAN2: Intel® I210-AT PCIe controller
- Graphics Engine**
Intel® HD Graphics Gen 7.5 supports DX11.1 and OpenCL 1.2, OpenGL 3.2
Full MPEG2, VC1, AVC Decode
- Audio**
Realtek ALC888S HD Audio codec supports 7.1-channel
2 x Audio jacks (line-out, mic-in) on rear IO
- iRIS Remote Management Module**
1 x iRIS-1010 slot
- LAN LED:** 2 x LAN LED (1x2 pin)
- Display Output**
1 x VGA (up to 1920x1200@60Hz)
1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
2 x HDMI (up to 2500x1600@60Hz)
1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)
- External I/O Interface**
1 x RS-232 2 x USB 2.0
2 x USB 3.2 Gen 1 (5Gb/s)
- Internal I/O Interface**
1 x KB/MS (1x6 pin)
1 x RS-422/485 (1x4 pin, P=2.0)
2 x SATA 3Gb/s
2 x SATA 6Gb/s (RAID 0/1/5/10 supported)
2 x USB 3.2 Gen 1 (5Gb/s) (2x10 pin, P=2.0)
4 x RS-232 (2x5 pin, P=2.0)
6 x USB 2.0 (2x4 pin, P=2.54)
- Front Panel:** 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- SMBus:** 1 x SMBus (1x4 pin)
- TPM:** 1 x TPM (2x10 pin)
- Expansion:** 1 x PCIe x16 slot
1 x Full-size PCIe Mini card slot (support mSATA)
- Watchdog Timer:** Software programmable, support 1~255 sec. system reset
- Digital I/O:** 8-bit digital I/O (2x5 pin)
- Fan Connector:** 1 x CPU smart fan (1x4 pin)
1 x System smart fan (1x4 pin)
- Power Supply:** 12V DC input
1 x Internal power connector (2x2 pin)
1 x External DC jack (4-pin DIN) Support AT/ATX mode
- Power Consumption:** 12V@6.03A (Intel® Core™ i7-4770EQ, 2.4GHz CPU with 8 GB (two 4 GB) 1333 MHz DDR3 memory)
Operating Temperature: -20°C ~ 60°C
Operating Humidity: 5% ~ 95%, non-condensing
Dimensions: 170mm x 170mm
Weight: GW: 900g / NW: 450g
CE/FCC compliant

Packing List

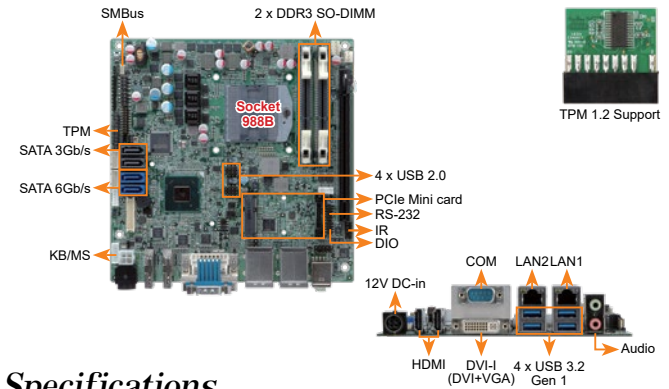
1 x KINO-DQM871-i1 motherboard	2 x SATA with power output cable
1 x CPU cooler	1 x Mini jumper pack
1 x I/O shielding	1 x QIG

Ordering Information

Part No.	Description
KINO-DQM871-i1-i5E-R10	Mini-ITX SBC supports Intel® 22nm mobile Core™ i5-4402E on-board processor, HDMI / VGA / LVDS / DP, dual Intel® PCIe GbE, AMT 9.0, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, iRIS-1010, audio and RoHS
iRIS-1010-R10	IPMI 2.0 adapter card with AST1010 BMC chip (W/O KVM over IP function) for PCIe Mini socket interface
19800-000300-100-RS	RS-232 cable with bracket, 300mm, P=2.0
19800-003100-100-RS	Dual port USB 2.0 cable with bracket, 300mm, P=2.54
19800-010500-200-RS	USB 3.2 Gen 1 (5Gb/s) cable with bracket, 450mm
32006-001100-201-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0
32205-003800-200-RS	RS-422/485 cable, 200mm, P=2.0
DP-DP-R10	DisplayPort converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17

KINO-QM770

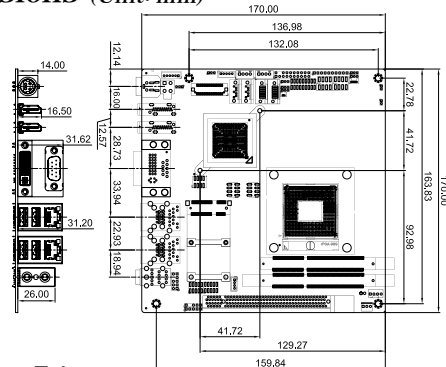
Mini-ITX SBC with Socket G2 for Intel® 22nm mobile CPU, DVI-I, dual HDMI, LVDS, dual PCIe GbE, USB 3.2 Gen 1 (5Gb/s), PCIe Mini, SATA 6Gb/s and audio



Specifications

- CPU:** Socket G2 for 3rd generation Intel® 22nm mobile processor
- Chipset:** Intel® QM77
- Memory:** Two 240-pin 1600/1333 MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 16 GB
- BIOS:** UEFI BIOS
- Ethernet**
LAN1: Intel® 82579 PHY with Intel® AMT 8.0 support
LAN2: Intel® 82583V PCIe controller
- Graphics Engine**
Supports DX11 and OpenGL 3.1
Full MPEG2, VC1, AVC Decode
- Display Output**
1 x DVI-I (up to 1920x1200@60Hz)
1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
2 x HDMI (up to 1920x1200@60Hz)
- Audio**
Realtek ALC888S HD Audio codec
2 x Audio jacks (line-out, mic-in) on rear IO
1 x Front Audio (2x5 pin)
- SMBus:** 1 x SMBus (1x4 pin)
- TPM:** 1 x TPM (2x10 pin)
- Expansion**
1 x PCIe x16 slot 1 x PCIe Mini card slot
- Digital I/O:** 8-bit digital I/O (2x5 pin)
- External I/O Interface**
1 x RS-232 4 x USB 3.2 Gen 1 (5Gb/s)
- Internal I/O Interface**
1 x KB/MS (1x6 pin)
2 x SATA 3Gb/s
1 x RS-232 (2x5 pin, P=2.0)
2 x SATA 6Gb/s (RAID 0/1/5/10 supported)
1 x RS-422/485 (1x4 pin, P=2.0)
4 x USB 2.0 (2x4 pin, P=2.54)
- Watchdog Timer:** Software programmable supports 1~255 sec. system reset
- Infrared Interface:** 1 x Infrared interface (1x5 pin)
- Fan Connector**
1 x CPU smart fan (1x4 pin)
1 x System fan (1x3 pin)
- Power Supply**
12V DC input
1 x Internal power connector (2x2 pin)
1 x External DC jack (4-pin DIN) Support AT/ATX mode
- Power Consumption**
12V@6.08A (2.3GHz Intel® Core™ i7-3610QE with two 1333 MHz 4 GB DDR3 memory running 3DMark06 burn in)
- Operating Temperature:** -10°C ~ 60°C
Storage Temperature: -20°C ~ 70°C
Operating Humidity: 5% ~ 95%, non-condensing
Dimensions: 170 mm x 170 mm
Weight: GW: 900g / NW: 450g
CE/FCC compliant

Dimensions (Unit: mm)



Packing List

1 x KINO-QM770 single board computer	2 x SATA with power output cable
1 x I/O shielding	1 x Mini jumper pack
1 x RS-232 cable with bracket	1 x QIG

Ordering Information

Part No.	Description
KINO-QM770-R10	Mini-ITX SBC with Socket G2 for Intel® 22nm mobile CPU, DVI-I/dual HDMI/LVDS, dual PCIe GbE, USB 3.2 Gen 1 (5Gb/s), PCIe Mini, SATA 6Gb/s and Audio
19800-003100-100-RS	Dual port USB 2.0 cable with bracket, 300mm, P=2.54
32006-001100-201-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
33200-000031-RS	DVI-I to VGA adapter connector
CF-989A-RS-R12	CPU cooler for mobile socket-G (PGA988) up to 55W processor, copper, 60 x 60 x 27.6mm, RoHS
SACF-KIT01-R10	SATA to CF converter board
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17