

# KINO-QM770

Mini-ITX SBC with Socket G2 for Intel® 22nm mobile CPU



## Features

- » Mini-ITX SBC with Socket G2 for Intel® 22nm mobile Ivy Bridge processor
- » Dual-channel 1066/1333/1600 MHz DDR3 SDRAM supports up to 16 GB
- » HDMI™ 1.3 compliant, three independent displays supported
- » 3D micro-architecture enhancement supports DX11, OCL 1.1 and OGL 3.1
- » Rich media acceleration for hardware decoding and encoding acceleration
- » Intel® GbE LAN with Intel® AMT 8.0 supported
- » High speed I/O interface for PCIe Gen 3.0 add-on card, USB 3.0 and SATA 6Gb/s supported
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

|                          |  |
|--------------------------|--|
| System                   |  |
| CPU                      | Socket G2 for 3rd generation Intel® 22nm mobile processor  |
| Chipset                  | Intel® QM77  |
| Memory                   | Two 240-pin 1600/1333 MHz dualchannel DDR3 SDRAM unbuffered DIMMs  |
| Memory Max.              | 16GB   |
| Physical Characteristics |  |
| Dimensions (LxWxH) (mm)  | 170 X 170  |
| Net Weight               | 450g   |
| Storage                  |  |
| Storage                  | 2 x SATA :3Gb/s  |
| I/O Interface            |  |
| Display Output           | 1 x DVI-I :up to 1920x1200@60Hz<br>2 x HDMI™ :up to 1920x1200@60Hz<br>1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz)  |
| Ethernet                 | 2 x LAN :LAN1:Intel® 82579 PHY with Intel® AMT 8.0 support<br>LAN2:Intel® 82583V PCIe controller   |
| Audio                    | Description: Realtek ALC892 HD codec<br>1 x Line out :on rear IO<br>1 x Mic :on rear IO<br>1 x Front Audio :2x5 pin  |
| I/O Interface            | 1 x External RS-232<br>1 x Internal RS-232 :2x5 pin, p=2.0<br>1 x Internal RS-422/485 :1x4 pin, p=2.0<br>4 x External USB 3.2 Gen1x1<br>4 x Internal USB 2.0 :2x4 pin, p=2.54<br>1 x PS/2 :1x6 pin |
| Expansion                | 1 x PCIe x16<br>1 x PCIe mini Card Slot  |
| Other Features           |  |

|                       |   |
|-----------------------|---|
| TPM                   | 2x10 pin  |
| <b>Power</b>          |   |
| Power Consumption     | 12V@6.08A (2.3GHz Intel® Core™ i7-3610QE<br>with two 1333 MHz 4 GB DDR3 memory running<br>3DMark06 burn in)       |
| Power Supply          | 12V DC input<br>1 x Internal power connector (2x2 pin)<br>1 x External DC jack (4-pin DIN)<br>Support AT/ATX mode |
| <b>Environment</b>    |   |
| Operating Temperature | -10°C ~ 60°C  |
| Storage Temperature   | -20°C ~ 70°C  |
| Humidity              | 5% ~ 95%, non-condensing  |
| <b>Certifications</b> |   |
| Safety & EMC          | CE/FCC compliant  |

## Ordering Information

|                |  |
|----------------|--|
| KINO-QM770-R10 | Mini-ITX SBC with Socket G2 for Intel 22nm mobile CPU,DVI-I/Dual HDMI™/LVDS,Dual PCIe GbE,USB3.0,PCIe mini,SATAIII and Audio |
|----------------|--|

## 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                          |