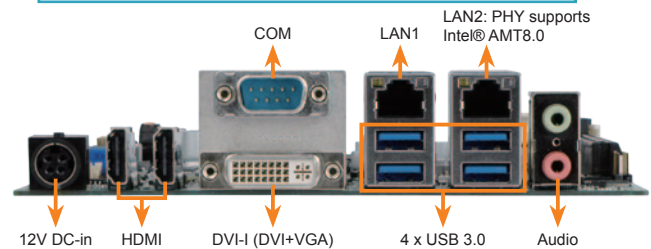
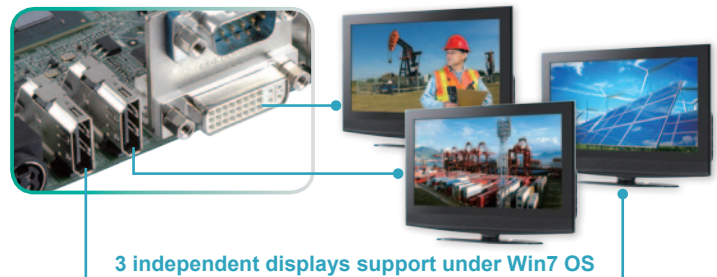
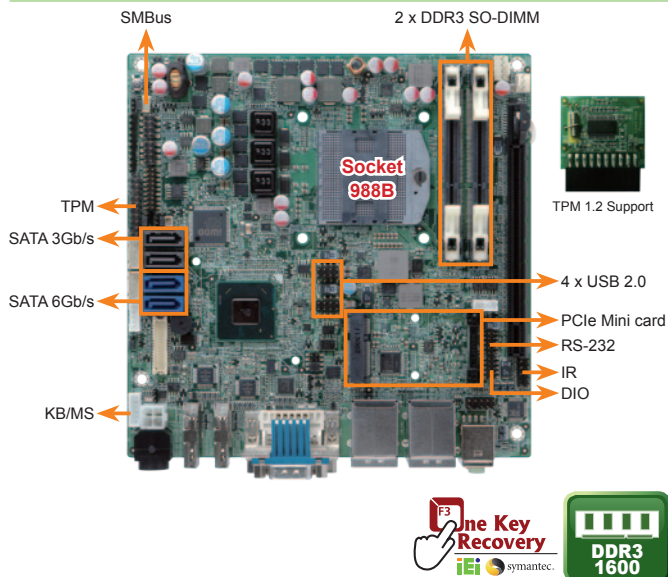


KINO-QM770

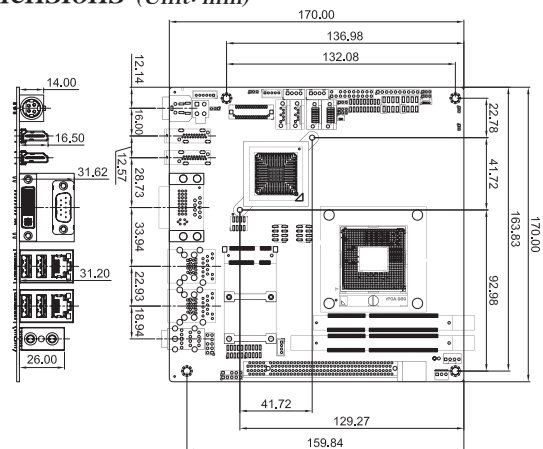
Mini-ITX SBC with Socket G2 for Intel® 22nm mobile CPU, DVI-I, dual HDMI, LVDS, dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s and audio



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

Dimensions (Unit: mm)



Specifications

- ◆ CPU
 - Socket G2 for 3rd generation Intel® 22nm mobile processor
- ◆ PCH
 - Intel® QM77
- ◆ Memory
 - Two 204-pin 1066/1333/1600 MHz dual-channel DDR3 SO-DIMMs supported (system max. 16 GB)
- ◆ BIOS
 - UEFI BIOS
- ◆ Ethernet
 - LAN1: Intel® 82583V PCIe controller
 - LAN2: Intel® 82579 PHY with Intel® AMT 8.0 support
- ◆ Graphics Engine
 - Supports DX11 and OpenGL 3.1
 - Full MPEG2, VC1, AVC Decode
- ◆ Display Output
 - DVI-I (VGA+DVI) integrated in Intel® QM77 (up to 1920x1200@60Hz)
 - 18/24-bit dual-channel LVDS support (up to 1920x1200@60Hz)
 - Dual HDMI (HDMI signal only) output supported (up to 1920x1200@60Hz)
- ◆ Audio
 - Realtek ALC892 HD Audio codec (line-out, mic-in) (2x5 pin)
- ◆ External I/O Interface
 - 1 x RS-232
 - 4 x USB 3.0
- ◆ Internal I/O Interface
 - 1 x KB/MS (1x6 pin)
 - 2 x SATA 3Gb/s
 - 1 x RS-232 (2x5 pin, P=2.00)
 - 2 x SATA 6Gb/s (RAID 0/1/5/10 support)
 - 1 x RS-422/485 (1x4 pin, P=2.00)
 - 4 x USB 2.0 (2x4 pin, P=2.54)
- ◆ SMBus
 - 1 x SMBus (1x4 pin)
- ◆ TPM
 - 1 x TPM connector (2x10 pin)
- ◆ Expansions
 - 1 x PCIe Mini card slot
 - 1 x PCIe x16
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
 - 8-bit digital I/O (2x5 pin)
- ◆ Infrared Interface
 - 1 x Infrared (1x5 pin)
- ◆ Fan Connector
 - 1 x CPU smart fan (1x4 pin)
 - 1 x System fan (1x3 pin)
- ◆ Power Supply
 - 1 x External 4-pin DIN DC jack
 - 1 x Internal 4-pin (2x2) power connector
 - Single voltage 12V DC input
 - Supports 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

Packing List

1 x KINO-QM770 single board computer	1 x Mini jumper pack
1 x I/O shielding	1 x One Key Recovery CD
1 x RS-232 cable with bracket	1 x QIG (Quick Installation Guide)
2 x SATA with power output cable	1 x Utility CD

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 3.0, PCIe Mini, SATA 6Gb/s and Audio
19800-003100-300-RS	Dual USB cable
32000-023800-RS	KB/MS Y cable
32205-003800-300-RS	RS-422/485 cable with bracket
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-R11	20-pin Infineon TPM module, software management tool, firmware v3.17