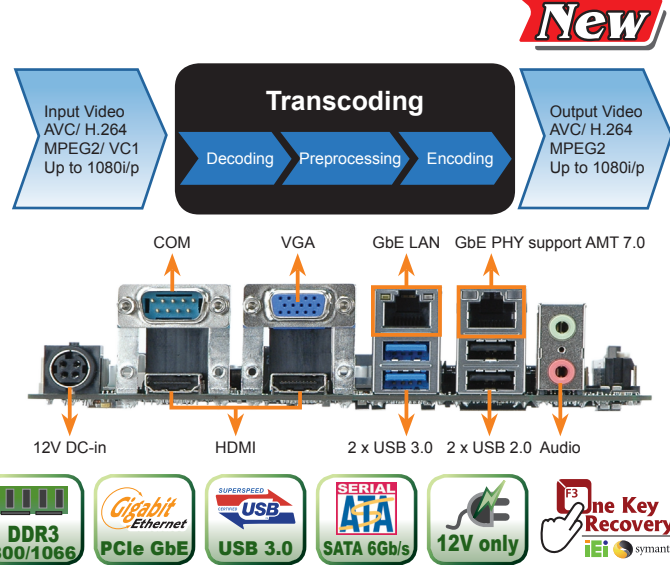
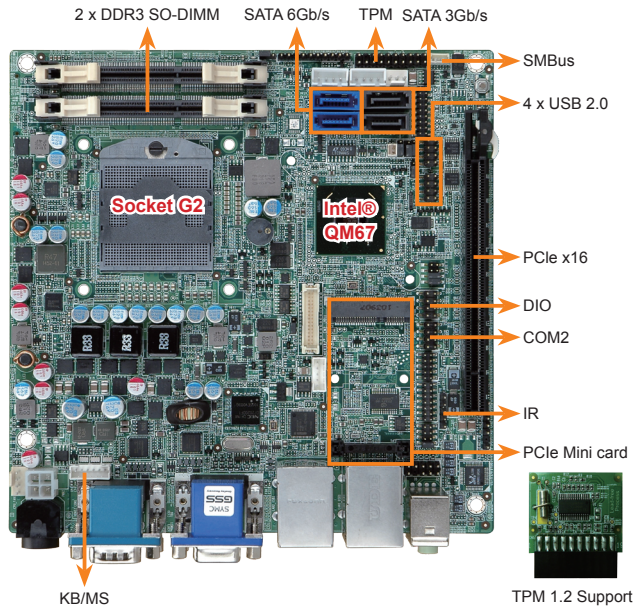


# KINO-QM670 Mini-ITX SBC with Socket G2 for Intel® mobile Core™ i7/i5/i3 CPU, VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s and Audio



## Specifications

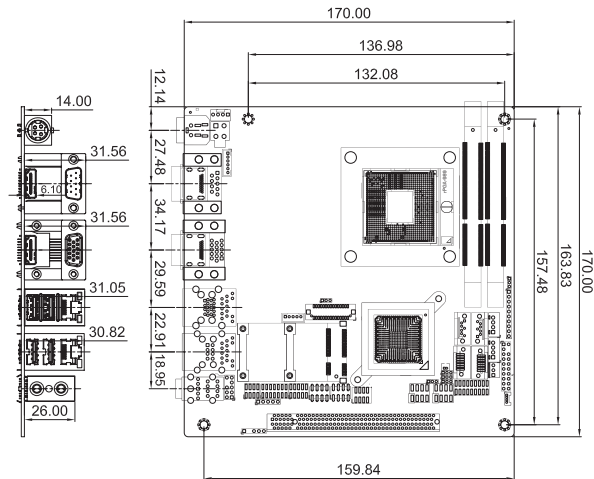
- ◆ CPU  
Socket G2 for Intel® Core™ i7/i5/i3 processor
- ◆ PCH  
Intel® QM67
- ◆ Memory  
Two 204-pin 800/1066 DDR3 dual-channel SO-DIMMs supported (system max. 8GB)
- ◆ BIOS  
UEFI BIOS
- ◆ Ethernet  
Intel® 82583V PCIe controller  
Intel® 82579 PHY with Intel® iAMT 7.0 supported
- ◆ Graphic Engine  
Support for DX10.1 and OpenGL3.0  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
VGA integrated in Intel® QM67  
18/24-bit dual-channel LVDS support  
Dual HDMI output support up to 1080p
- ◆ Super I/O  
Fintek F81865
- ◆ Embedded Controller  
ITE IT8518
- ◆ Audio  
Realtek ALC888 HD codec
- ◆ I/O interface
 

2 x RS-232	1 x RS-422/485
6 x USB 2.0	2 x USB 3.0
2 x SATA 3Gb/s	2 x SATA 6Gb/s with RAID 0/1/5/10 support
2 x SATA power connector	1 x 6-pin header for KB/MS
- ◆ SM bus  
1 x 4-pin wafer
- ◆ TPM  
2 x 10-pin pin header
- ◆ Expansion  
1 x Mini PCIe card slot  
1 x PCIe x16
- ◆ Watchdog Timer  
Software programmable support 1~255 sec. system reset
- ◆ Digital I/O  
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Infrared Interface  
1 x 5-pin pin header
- ◆ Fan connector  
1 x 4-pin CPU fan connector  
1 x 3-pin system fan connector
- ◆ Power Supply  
Single voltage 12V DC input  
1 x External DIN 4-pin DC jack  
1 x Internal 4-pin (2x2) power connector  
Support AT/ATX mode
- ◆ Power Consumption  
12V@6.5A (2.2GHz Intel® Core™ i7 CPU with DDR3 1333MHz 4GB\*2 DIMM)
- ◆ Operating Temperature  
-10°C ~ 60°C
- ◆ Operating Humidity  
5% ~95%, non-condensing
- ◆ Dimensions  
170mm x 170mm
- ◆ Weight  
GW: 900g / NW: 450g

## Features

1. Mini-ITX SBC with Socket G2 for Intel® Core™ i7/i5/i3 processor
2. DDR3 800/1066MHz dual-channel SDRAM supported up to 8GB
3. HDMI 1.4 compliant
4. 3D micro-architecture enhancements supports for DX\*10.1 and OGL\*3.0
5. Rich media acceleration supports for hardware decoding and encoding acceleration
6. Intel® GbE Lan with Intel®AMT 7.0 supported
7. High speed I/O interface for PCIe Gen2 add-on card, USB 3.0 and SATA 6Gb/s supported

## Dimensions (Unit: mm)



## Packing List

1 x KINO-QM670 single board computer	
2 x SATA with power output cable (P/N: 32801-000100-100-RS)	
1 x RS-232 cable (P/N: 19800-000300-100-RS)	
1 x I/O shielding (P/N: 45014-0029C0-00-RS)	1 x Mini jumper pack
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-QM670-R10	Mini-ITX SBC with Socket G2 for Intel® mobile Core i7/ i5/ i3 CPU, VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe mini, SATA 6Gb/s and audio
CB-USB02-RS	Dual USB cable
32000-023800RS	KB/MS Y cable
SACF-KIT01-R10	SATA to CF converter board
CF-989-RS-R11	CPU cooler
TPM-IN01-R11	20-Pin Infineon TPM module, software management tool, firmware V3.17

- 1 Industrial Computing Solutions
- 2 Video Capture Solutions
- 3 Embedded Computing Solutions
- 4 Industrial Data Collector and Controller
- 5 Panel Solutions Introduction
- 6 ORing Network Communication
- 7 Power Supply/ Peripherals