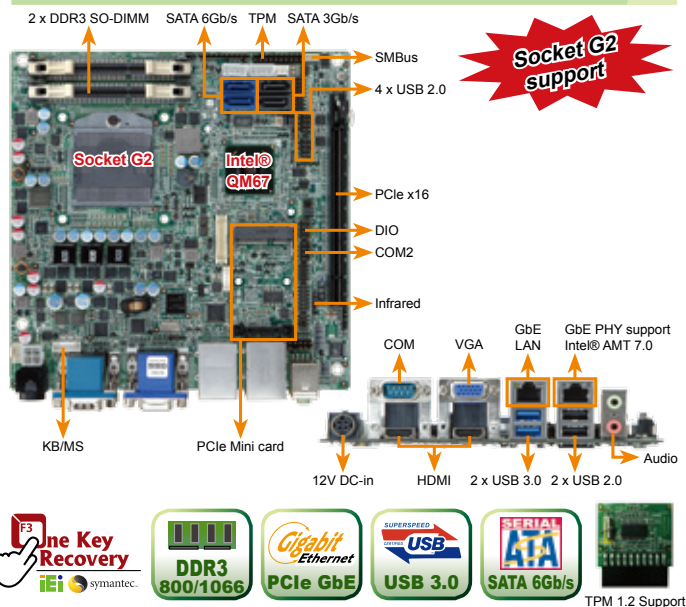


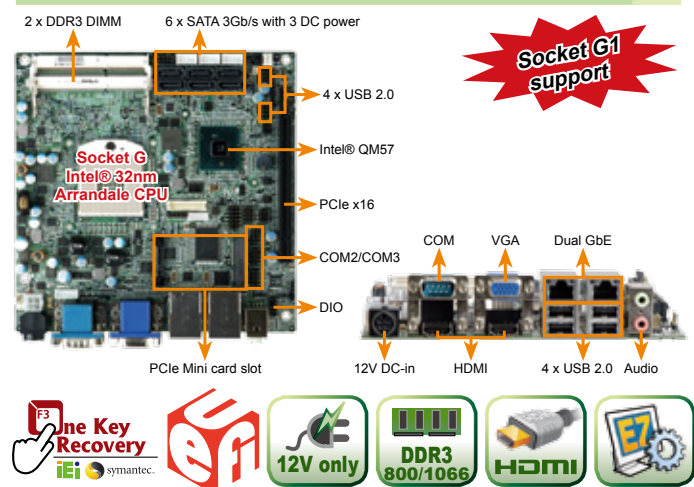
KINO-QM670

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



KINO-QM57A

Mini-ITX SBC with Socket G1 for Intel® mobile Core™ i7/i5/i3/Celeron® CPU, VGA/Dual HDMI/LVDS, PCIe GbE, USB 2.0, PCIe Mini, SATA 3Gb/s, Audio and RoHS



Features

1. Mini-ITX SBC with Socket G2 for Intel® Core™ i7/i5/i3 processor
2. Dual-channel 1333/1066MHz DDR3 SDRAM (system max. 8GB)
3. HDMI 1.3 compliant
4. 3D micro-architecture enhancements supports DX*10.1 and OGL*3.0
5. Rich media acceleration 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

Specifications

- ◆ CPU: Socket G2 for Intel® Core™ i7/i5/i3 processor
- ◆ PCH: Intel® QM67
- ◆ Memory: Two 204-pin 1333/1066 DDR3 dual-channel SO-DIMMs supported (system max. 8GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: Intel® 82579 PHY with Intel® AMT 7.0 supported
- ◆ Graphics Engine: Support for DX10.1 and OpenGL 3.0 Full MPEG2, VC1, AVC Decode
- ◆ Display Output: Dual display supported
 - 1 x VGA
 - 1 x 18/24-bit dual-channel LVDS support
- ◆ Super I/O: Fintek F81865
- ◆ Embedded Controller: ITE IT8518
- ◆ 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 KB/MS
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ SM bus: 1 x 4-pin wafer
- ◆ TPM: 2 x 10-pin header
- ◆ Expansion:
 - 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 (4-bit input, 4-bit output)
- ◆ Infrared Interface: 1 x 5-pin header
- ◆ Fan Connector: 1 x 4-pin CPU 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 (2.1GHz Intel® Core™ i7-2710QE CPU with two 1333MHz 2GB DDR3 DIMM)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW: 900g/NW: 450g

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 One Key Recovery CD
- 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
19800-003100-200-RS	Dual USB cable
32000-023800-RS	KB/MS Y cable
32205-003800-100-RS	RS-422/485 cable
SACF-KIT01-R10	SATA to CF converter board
CF-989A-RS-R12	CPU cooler
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17

Features

1. Mini-ITX SBC with Socket G for Intel® 32nm/45nm mobile Core™ i7/i5/i3 and Celeron® processor
2. 800/1066MHz dual-channel DDR3 SO-DIMM supported (System max. 8GB)
3. Analog CRT/18-bit or 24-bit dual-channel LVDS/Dual HDMI outputs supported
4. Intel® GbE LAN with Intel® AMT 6.0 support, iEZman UI is bounded for remote control under Windows® environment
5. UEFI software interface between OS and platform firmware
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU: Socket G1 for Intel® mobile Core™ i7/i5/i3 and Celeron® processor (Socket 988)
- ◆ PCH: Intel® QM57
- ◆ Memory: Two 204-pin 800/1066MHz dual-channel DDR3 SDRAM SO-DIMM supported (system max. 8GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: 1 x Intel® 82577 GbE LAN controller with Intel® AMT 6.0 supported by iEZman software UI
- ◆ Graphics Engine: Gen 5.75 with 12 Execution Units DirectX* 10, OpenGL* 2.1
- ◆ Display Output: Dual display supported
 - 1 x VGA
 - 2 x HDMI
 - 1 x 18/24-bit dual-channel LVDS support
- Note: The Intel® quad-core processor is a discrete processor which does not integrate a graphics engine. If a quad-core processor is used on the motherboard, an additional graphic card must be installed in order to support display output. Otherwise, the display will show "No display output" when connected to the on-board display port.
- ◆ Super I/O: Fintek F81865
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ I/O Interface:
 - 3 x RS-232
 - 8 x USB 2.0
 - 1 x RS-232/422/485 with auto flow control
 - 1 x 6-pin header for KB/MS
 - 6 x SATA 3Gb/s with RAID 0/1/5/10, support three SATA power connectors
- ◆ Expansion: 1 x PCIe Mini Card
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- ◆ Fan Connector: 1 x 4-pin CPU fan connector
- ◆ Power Supply: Single voltage 12V DC input
- ◆ 1 x External 4-pin DIN DC jack
- ◆ 1 x Internal 4-pin (2x2) power connector
- ◆ Support AT/ATX mode
- ◆ Power Consumption: 12V@5.27A (2.66GHz Intel® Core™ i7 620M CPU with two 2GB 1333MHz DDR3 DIMMs)
- ◆ Temperature: Operation: 0°C ~ 60°C (32°F~140°F)
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW:1000g/NW:350g

Packing List

- 1 x KINO-QM57A single board computer
- 3 x SATA with power output cable (P/N: 32801-000100-100-RS)
- 1 x Dual RS-232 cable w/bracket (P/N: 19800-000112-RS)
- 1 x I/O shielding (P/N: 45014-0029C0-00-RS)
- 1 x One Key Recovery CD
- 1 x Mini jumper pack
- 1 x QIG
- 1 x Utility CD

Ordering Information

Part No.	Description
KINO-QM57A-R10	Mini-ITX SBC with Socket G1 for Intel® mobile Core™ i7/i5/i3/Celeron® CPU, VGA/Dual HDMI/LVDS, PCIe GbE, USB 2.0, PCIe Mini, SATA 3Gb/s and audio, RoHS
19800-003100-200-RS	Dual USB cable
SAIDE-KIT01-R10	SATA to IDE/CF converter board
WMPCIE-V01-R30	PCIe Mini card wireless LAN module
VMUSB-V01-R20	USB Mini card wireless LAN module
63000-FSP096AHB-RS	96W/12V power adaptor 90VAC~260VAC, DIN 4 pin
19800-004300-100-RS	RS-232/422/485 cable with bracket
CF-989A-RS-R12	CPU cooler for mobile socket-G (PGA988) up to 55W processor, Copper, 60mm x 60mm x 27.6mm, RoHS
CF-989B-RS	CPU cooler for mobile socket-G (PGA988) 50W processor, Aluminum, 60x60x27.6mm, RoHS