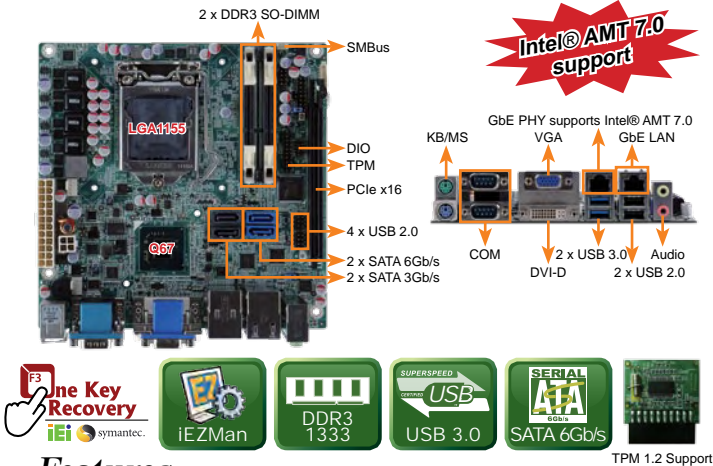


KINO-AQ670

Mini-ITX SBC Supports LGA1155 Intel® Core™ i7/i5/i3/Pentium® and Celeron® CPU, DDR3, VGA/DVI-D, two COMs, Intel® GbE, SATA 6Gb/s, USB 3.0, HD Audio and RoHS



Features

1. LGA1155 with Intel® 2nd generation Core™ i7/i5/i3/Pentium® and Celeron® processors supported
2. Dual-channel DDR3 1333/1066MHz supports up to 16GB
3. Supports dual independent display by VGA and DVI-D
4. High speed USB 3.0 and SATA 6Gb/s supported
5. Intel® GbE LAN with Intel® AMT 7.0 support
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU: LGA1155 socket supports Intel® Core™ i7/i5/i3/Pentium® and Celeron® processors
- ◆ System Chipset: Intel® Q67
- ◆ Memory: Two 204-pin 1066/1333MHz dual-channel DDR3 SDRAM SO-DIMMs supported (system max. 16GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: Intel® 82583V PCIe controller, Intel® 82579 PHY with Intel® AMT 7.0 support
- ◆ Graphics Engine: Supports DX10.1 and OpenGL3.0, Full MPEG-2, VC1, AVC Decode
- ◆ Display Output: Dual display supported, 1 x VGA (up to 2048 x 1536 @ 75Hz), 1 x DVI-D (up to 1920 x 1200 @ 60Hz)
- ◆ I/O Interface: 2 x RS-232, 1 x TPM pin header, 6 x USB 2.0, 2 x USB 3.0, 2 x SATA 3Gb/s, 1 x PS/2 KB/MS, 2 x SATA 6Gb/s with RAID 0/1/5/10 support
- ◆ Super I/O: Fintek F81866
- ◆ Audio: Realtek ALC662 HD audio codec
- ◆ Expansions: 1 x PCIe x16 slot
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ GPIO: Programmable 8-bit GPIO
- ◆ Fan Connector: 1 x 4-pin CPU fan connector, 1 x 3-pin system fan connector (Co-layout with 4-pin)
- ◆ Power Supply: AT/ATX power supply
- ◆ Power Consumption: 5V@3.84A, 12V@0.16A, Vcore_12V@5.31A, 3.3V@1.81A, 5VSB@0.5A (2.5GHz Intel® Core™ i5-2400S with two 1333MHz 2GB DDR3 memory)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170 mm x 170 mm
- ◆ Weight: GW: 1100g/NW: 700g

Packing List

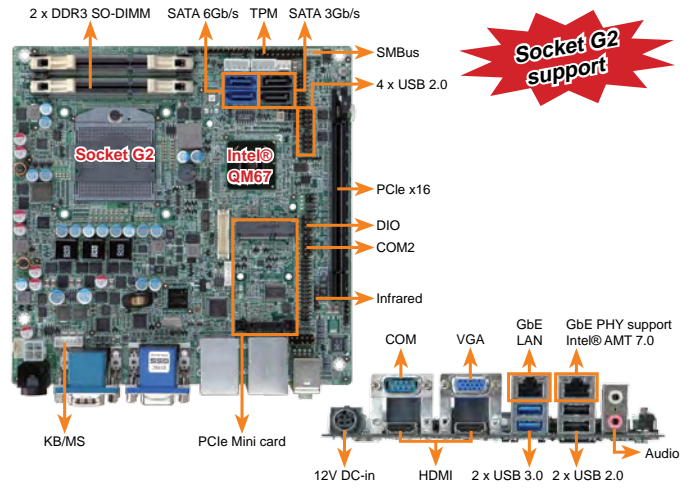
1 x KINO-AQ670 single board computer	
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	1 x Mini jumper pack
4 x SATA cable (P/N: 32801-000703-200-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

Ordering Information

Part No.	Description
KINO-AQ670-R10	Mini-ITX SBC supports LGA1155 Intel® Core™ i7/i5/i3 CPU, DDR3, VGA/DVI-D, 2 COM, Intel® GbE, SATA 6Gb/s, USB 3.0, HD Audio and RoHS
19800-003100-200-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
SACF-KIT01-R10	SATA to CF converter board
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
CPU-DT-i5-2500T	Intel® Core™ i5-2500T processor, LGA-1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i5-2390T	Intel® Core™ i5-2390T processor, LGA-1155, dual core 2.7GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i3-2120T	Intel® Core™ i3-2120T processor, LGA-1155, dual core 2.5GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-P-G630T	Intel® Pentium® G630T processor, LGA1155, dual core 2.3GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-C-G440	Intel® Celeron® G440 processor, LGA-1155, single core 1.6GHz, 1M cache, 35W, compatible with CF-1156C-RS CPU cooler
CF-1156A-RS-R11	High-performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-RS-R11	High-performance LGA1155/LGA1156 cooler kit, 95W

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



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® 82583V PCIe controller, Intel® 82579 PHY with Intel® AMT 7.0 supported
- ◆ Graphics Engine: Support for DX10.1 and OpenGL3.0, Full MPEG2, VC1, AVC Decode
- ◆ Display Output: Dual display supported, 1 x VGA, 2 x HDMI, 1 x 18/24-bit dual-channel LVDS support
- ◆ Super I/O: Fintek F81866
- ◆ Embedded Controller: ITE I8518
- ◆ 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 4-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 (2.1GHz 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 Mini jumper pack
1 x I/O shielding (P/N: 45014-0029C0-00-RS)	1 x Utility CD
1 x One Key Recovery 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

1. Industrial Computing Solutions
2. Video Capture Solutions
3. Embedded Computing Solutions
4. Automation Control
5. ORing Network Communication
6. Power Supply/Peripherals
7. Panel Solutions Introduction