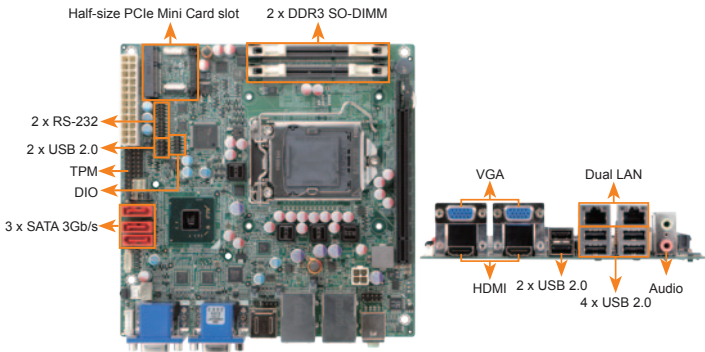


# KINO-AH611

Mini-ITX SBC Supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU, DDR3, Dual HDMI/Dual VGA, Dual PCIe GbE, SATA 3Gb/s, HD Audio and RoHS



## Features

1. LGA1155 for the next generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor supported
2. Up to 16 GB 1333/1066 MHz dual-channel DDR3 SDRAM
3. Supports dual independent display by dual VGA and dual HDMI
4. Two COM ports and three SATA 3Gb/s connectors supported
5. 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®/Celeron® processor
- ◆ System Chipset: Intel® H61
- ◆ Memory: Two 204-pin 1066/1333 MHz dual-channel DDR3 SDRAM SO-DIMMs supported (system max. 16GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: Dual LAN: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
- ◆ Graphics Engine: Supports DX10.1 and OpenGL 3.0, Full MPEG-2, VC1, AVC Decode
- ◆ Display Output: Dual display supported, 2 x VGA (up to 2048 x 1536 @75Hz), 2 x HDMI (up to 1920 x 1200 @60Hz)
- ◆ Super I/O: Fintek F81866
- ◆ I/O Interface: 2 x RS-232, 8 x USB 2.0, 3 x SATA 3Gb/s, 1 x TPM connector (2x10 pin), 1 x 6-pin header for PS/2 KB/MS
- ◆ Embedded Controller: iWDD
- ◆ Audio: Realtek ALC662 HD audio codec
- ◆ Expansions: 1 x PCIe x16 slot, 1 x Half-size PCIe Mini card slot
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: Programmable 8-bit GPIO
- ◆ Fan Connector: 1 x 4-pin CPU fan connector, 1 x 3-pin system fan connector
- ◆ Power Supply: ATX Power Supply
- ◆ Power Consumption: 5V@3.47A, 12V@0.11A, Vcore\_12V@6.73A, 3.3V@1.01A, 5VSB@0.15A (3.4GHz Intel® Core™ i7-2600K with two 1333 MHz 2 GB DDR3 SO-DIMMs)
- ◆ 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: 1100g/NW: 700g

## Packing List

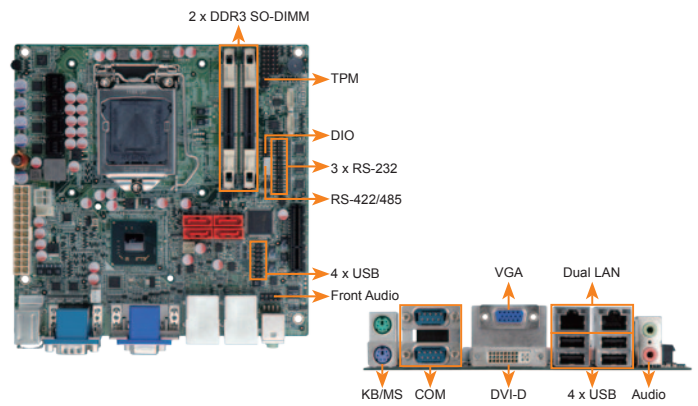
1 x KINO-AH611 single board computer	
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	
3 x SATA cable (P/N: 32000-062800-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0035C0-00-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-AH611-R10	Mini-ITX SBC supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU, DDR3, dual HDMI/dual VGA, dual PCIe GbE, SATA 3Gb/s, HD Audio and RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
SACF-KIT01-R10	SATA to CF converter board
32000-023800-RS	KB/MS Y cable
CPU-DT-i5-2500T	Intel® Core™ i5-2500T processor, LGA1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i5-2390T	Intel® Core™ i5-2390T processor, LGA1155, dual core 2.7GHz, 3M cache, 35W, AMT, compatible with CF-1156C-RS CPU cooler
CPU-DT-i3-2120T	Intel® Core™ i3-2120T processor, LGA1155, dual core 2.6GHz, 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, LGA1155, 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-R11	High-performance LGA1155/LGA1156 cooler kit, 95W

# KINO-AH612

Mini-ITX SBC Supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with H61, DDR3, VGA/DVI-D, Six COMs, Dual PCIe GbE, SATA 3Gb/s, HD Audio and RoHS



## Features

1. LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor supported
2. Dual-channel 1333/1066MHz DDR3 supports up to 16GB
3. Supports dual independent display by VGA and DVI-D
4. Supports six COM ports, four SATA 3Gb/s ports and one PCIe x4 slot for IO expansion card
5. 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®/Celeron® processor
- ◆ System Chipset: Intel® H61
- ◆ Memory: Two 204-pin 1066/1333MHz dual-channel DDR3 SDRAM unbuffered SO-DIMMs supported (system max. 16GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: Dual LAN: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
- ◆ Graphics Engine: Supports DX10.1 and OpenGL 3.0, 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)
- ◆ Super I/O: Fintek F81866
- ◆ Embedded Controller: iWDD
- ◆ Audio: Realtek ALC662 HD audio codec
- ◆ I/O Interface: 5 x RS-232, 1 x RS-422/485, 8 x USB 2.0, 4 x SATA 3Gb/s, 1 x PS/2 KB/MS, 1 x TPM connector (2x10 pin)
- ◆ Expansions: 1 x PCIe x4 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 PCH fan connector
- ◆ Power Supply: ATX power supply
- ◆ Power Consumption: 5V@3.9A, 12V@0.36A, Vcore\_12V@8.28A, 3.3V@1.24A, 5VSB@0.18A (3.4GHz Intel® Core™ i7-2600 with two 1333MHz 2GB DDR3 memory)
- ◆ 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: 1100g/NW: 700g

## Packing List

1 x KINO-AH612 single board computer	
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	1 x Utility CD
2 x SATA Cable (P/N: 32000-062800-RS)	1 x Mini jumper pack
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-AH612-R10	Mini-ITX SBC supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with H61, DDR3, VGA/DVI-D, 6COM, dual PCIe GbE, SATA 3Gb/s, HD Audio and RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
SACF-KIT01-R10	SATA to CF converter board
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, AMT, compatible with CF-1156C-RS CPU cooler
CPU-DT-i3-2120T	Intel® Core™ i3-2120T processor, LGA1155, dual core 2.6GHz, 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-R11	High-performance LGA1155/LGA1156 cooler kit, 95W