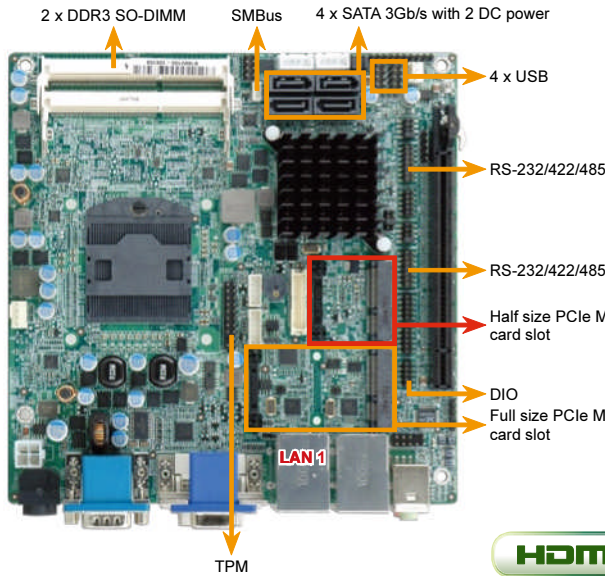
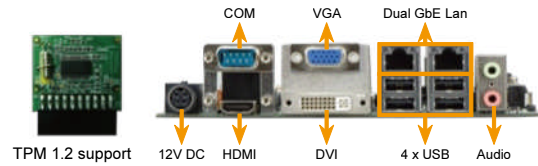
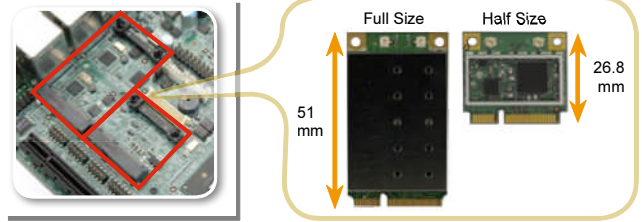


# KINO-HM551

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



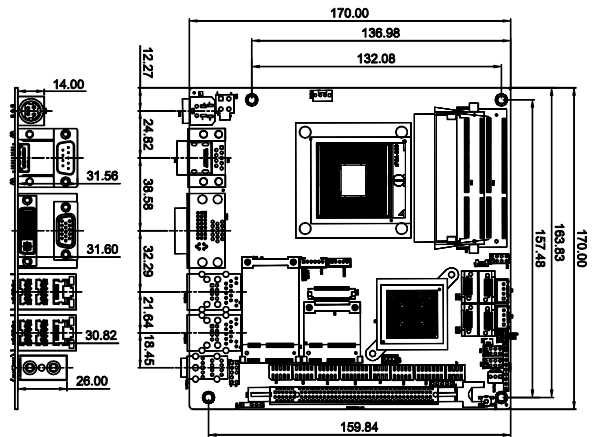
Support dual PCIe Mini card including full size and half size device.



## Features

1. Mini-ITX SBC with Socket G1 for Intel® mobile Core™ i7/i5/i3 and Celeron® processor
2. DDR3 800/1066MHz dual-channel SDRAM supported up to 8GB
3. 18/24-bit dual channel LVDS/ Analog CRT/ DVI/ HDMI output supported
4. PCIe x16 slot and dual PCIe Mini card for high speed device expansion
5. TPM V1.2 hardware security function supported by TPM module
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Dimensions (Unit: mm)



## Packing List

1 x KINO-HM551 single board computer	
1 x Dual RS-232 cable with bracket (P/N: 19800-000112-RS)	
2 x SATA with power cable kit (P/N: 32801-000100-100-RS)	
1 x I/O shielding (P/N: 45014-0032C0-00-RS)	1 x Utility CD
1 x QIG	1 x Mini jumper pack

## Ordering Information

Part No.	Description
KINO-HM551-R10	Mini-ITX SBC with Socket G1 for Intel® mobile Core i7/i5/i3 and Celeron® CPU, VGA/DVI/LVDS/HDMI, Dual PCIe GbE, USB 2.0, Dual PCIe Mini, SATA 3Gb/s and Audio, RoHS
CB-USB02-RS	Dual USB cable with bracket
SAIDE-KIT01-R10	SATA to IDE/CF Converter board
19800-000110-RS	RS-232/422/485 cable with bracket
32000-023800-RS	KB/MS Y cable
CF-989A-RS-R11	CPU cooler for mobile socket-G (PGA988) up to 55W processor, Copper, 60x60x27.6mm ,RoHS
TPM-IN01-R11	20-Pin Infineon TPM module, software management tool, firmware V3.17



## Specifications

- ◆ CPU: Socket G1 for Intel® mobile Core™ i7/ i5/ i3 and Celeron® processor (Socket 988)
- ◆ PCH: Intel® HM55
- ◆ Memory: Two 204-pin 4GB (max.) 800/1066MHz dual-channel DDR3 SDRAM SO-DIMM supported (System max. 8GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: Dual GbE LAN controller by Realtek RTL8111E LAN1 with ASF 2.0 support
- ◆ Graphic Engine: Gen 5.75 with 12 Execution Units DirectX\* 10, OpenGL\* 2.1
- ◆ Display Interface: Analog CRT by VGA connector (2048x1536), 18/24-bit dual-channel LVDS (1600x1200), HDMI supports resolution up to 1080p DVI-D
- Note: The Intel® quad-core processor is a discrete processor which does not integrate a graphic 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 codec
- ◆ I/O Interface: 4 x RS-232, 2 x RS-232/422/485 with Auto Flow control, 8 x USB 2.0, 4 x SATA 3Gb/s with 2pcs DC power connector, 1 x 6-pin header for KB/MS
- ◆ Expansion: 1 x PCIe Mini card slot, 1 x Half size PCIe Mini card slot, 1 x PCIe x16 slot
- ◆ TPM: 2 x 10-pin header
- ◆ SMBus: 1 x 4-pin wafer connector
- ◆ Watchdog Timer: Software programmable support 1~255 sec. system reset
- ◆ Digital I/O: 8-bit digital I/O, 4-bit input / 4-bit output
- ◆ 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 2x2-pin power connector, AT/ATX support by jumper
- ◆ Power Consumption: 12V@4.7A (2.66GHz Intel® Core i7 620M CPU with DDR3 1333MHz 4GB\*2 DIMM)
- ◆ Temperature: Operation: -10°C ~ 60°C
- ◆ Humidity: Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW: 900g / NW: 450g

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