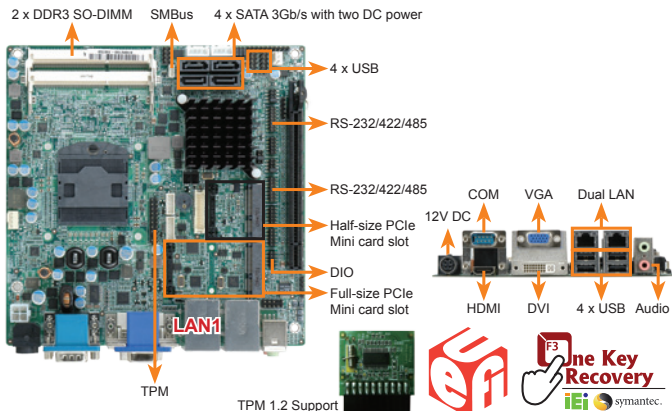


KINO-HM551

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



Features

- Mini-ITX SBC with Socket G1 for Intel® mobile Core™ i7/i5/i3 and Celeron® processor
- DDR3 800/1066MHz dual-channel SDRAM supported up to 8 GB
- 18/24-bit dual-channel LVDS/Analog CRT/DVI/HDMI output supported
- PCIe x16 slot and dual PCIe Mini card for high speed device expansion
- TPM V1.2 hardware security function supported by TPM module
- 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® HM55
- ◆ Memory: Two 204-pin 4 GB (max.) 800/1066 MHz dual-channel DDR3 SDRAM SO-DIMM supported (System max. 8 GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: Dual LAN: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
- ◆ Graphics Engine: Gen 5.75 with 12 execution units support DirectX* 10, OpenGL* 2.1
- ◆ Display Interface: 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 graphics 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.
- ◆ Audio: Realtek ALC662 HD Audio codec (line-out, mic-in) (2x5 pin)
- ◆ TPM: 1 x TPM connector (2x10 pin)
- ◆ SMBus: 1 x 4-pin wafer connector
- ◆ Expansions: 1 x PCIe Mini card slot, 1 x Half-size PCIe Mini card slot, 1 x PCIe x16 slot
- ◆ External I/O Interface: 1 x RS-232 (4 x USB 2.0)
- ◆ Internal I/O Interface: 1 x KB/MS (1x6 pin), 4 x SATA 3Gb/s, 2 x RS-232/422/485 (2x7 pin, P=2.00), 3 x RS-232 (2x5 pin, P=2.00), 4 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector: 1 x CPU smart fan (1x4 pin), 1 x System smart fan (1x3 pin)
- ◆ Power Supply: Single voltage 12V DC input, 1 x External 4-pin DIN DC jack, 1 x Internal 4-pin (2x2) power connector, AT/ATX power mode selected by jumper
- ◆ Power Consumption: 12V@4.67A (2.66GHz Intel® Core i7 620M CPU with two 1333 MHz 4 GB DDR3 DIMM)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW: 900g/NW: 450g

Packing List

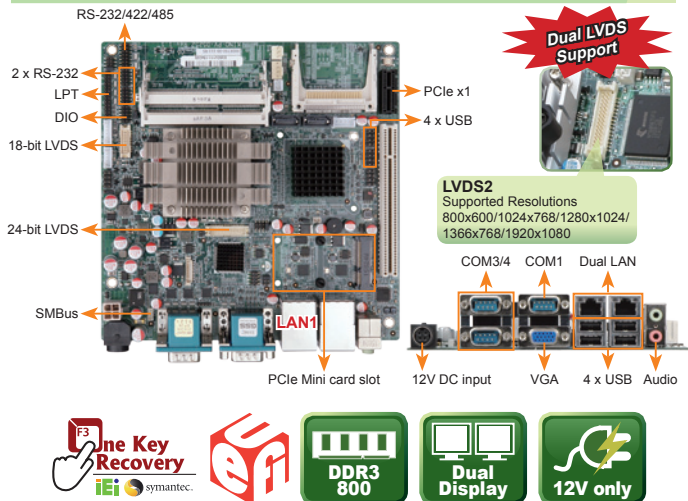
1 x KINO-HM551 single board computer	1 x Mini jumper pack
1 x Dual RS-232 cable with bracket	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
2 x SATA with power cable	1 x Utility CD

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
19800-003100-300-RS	Dual USB cable with bracket
SAIDE-KIT01-R10	SATA to IDE/CF converter board
19800-004300-100-RS	RS-232/422/485 cable with bracket
32000-023800-RS	KB/MS Y cable
CF-989A-RS-R12	CPU cooler for mobile socket-G (PGA988) up to 55W processor, copper, 60mm x 60mm x 27.6mm, RoHS
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware v3.17

KINO-PV-D4252/D5252

Mini-ITX SBC with Intel® Atom™ D425/D525, DDR3, VGA/18+48-bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS



Features

- Mini-ITX SBC with Intel® Atom™ D525/D425 processor
- Support 800 MHz DDR3 SO-DIMM socket (system max. 4 GB)
- Support 24-bit dual-channel LVDS with up to 1920x1080 resolution
- Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, six COM and audio
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU: Intel® Atom™ D525 dual-core processor (1.8GHz/1MB L2 cache), Intel® Atom™ D425 single-core processor (1.8GHz/512KB L2 cache)
- ◆ Chipset: ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory: Two 204-pin 800 MHz DDR3 SDRAM SO-DIMMs supported (system max. 4 GB) for D525/D425
- ◆ Graphics: GMA 3150, Graphics core speed 400 MHz for D525/D425
- ◆ Display Interface: Analog CRT up to 2048x1536 for D525/D425, 18-bit single-channel LVDS, up to WXGA 1366x768 or XGA 1024x768, 24-bit dual-channel LVDS by Novatek 68660UFG, up to 1920x1080
- ◆ Ethernet: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support, LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ Audio: Realtek ALC662-GR HD Audio codec
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Expansion: 1 x PCI slot, 1 x PCIe x1 slot, 1 x PCIe Mini card slot
- ◆ External I/O Interface: 3 x RS-232, 4 x USB 2.0
- ◆ Internal I/O Interface: 1 x CF Type II, 1 x KB/MS, 1 x LPT (2x13 pin, P=2.54), 1 x RS-232/422/485 (2x7 pin, P=2.00), 2 x RS-232 (2x5 pin, P=2.00), 2 x SATA 3Gb/s, 4 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Power Supply: 12V, AT/ATX power mode, 1 x External 4-pin DIN DC jack, 1 x Internal 4-pin (2x2) power connector
- ◆ TPM (optional): On-board Infineon SLB9635TT1.2
- ◆ Fan Connector: 1 x CPU smart fan (1x4 pin), 1 x System fan (1x3 pin)
- ◆ Power Consumption: 12V@1.95A (Intel® Atom™ D525 1.8GHz with 2 GB DDR3)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Weight: GW: 800g/NW: 340g

Packing List

1 x KINO-PV-D4252/D5252 single board computer	1 x Mini jumper pack
1 x I/O shielding	1 x One Key Recovery CD
1 x RS-232 cable with bracket	1 x QIG
1 x SATA with power cable	1 x Utility CD

Ordering Information

Part No.	Description
KINO-PV-D5252-L2-R11	Mini-ITX SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/18+48 bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
KINO-PV-D4252-R11	Mini-ITX SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/18-bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
19800-003100-300-RS	Dual-port USB cable
19800-004300-100-RS	RS-232/422/485 cable with bracket
19FFD124010HB2A7-000001-RS	CPU fan
32000-023800-RS	PS2 KB/MS cable
32100-192900-RS	One 4-pin (2x2) to one 4-pin (1x4) DC power cable with terminal block
32200-015100-RS	LPT cable
34000-000510-RS	30mm higher heatsink
PCIER-K101L-R10	PCIe x1 riser card