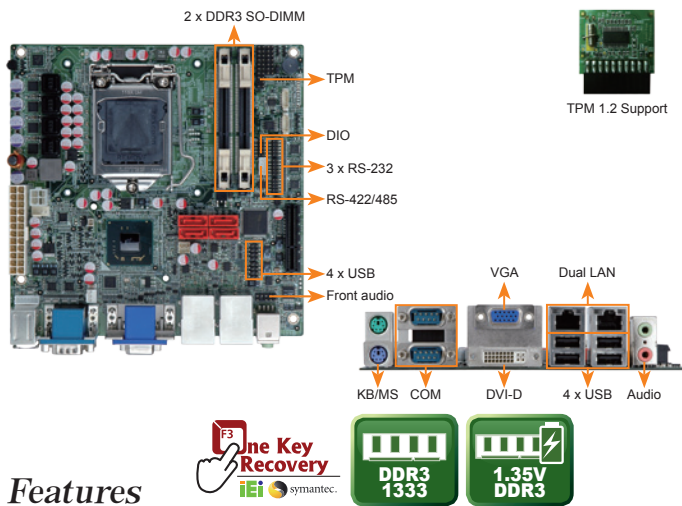


KINO-AH612

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

- LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor supported
- Dual-channel 1333/1066 MHz DDR3 supports up to 16 GB
- Supports dual independent display by VGA and DVI-D
- Supports six COM ports, four SATA 3Gb/s ports and one PCIe x4 slot for IO expansion card
- 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 unbuffered SO-DIMMs supported (system max. 16 GB)
- ◆ 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 2048x1536@75Hz)
1 x DVI-D (up to 1920x1200@60Hz)
- ◆ Audio: Realtek ALC662 HD Audio codec (line-out, mic-in) (2x5 pin)
- ◆ External I/O Interface
1 x KB/MS 2 x RS-232 4 x USB 2.0
- ◆ Internal I/O Interface
1 x KB/MS (1x6 pin) 4 x SATA 3Gb/s
1 x RS-422/485 (1x4 pin, P=2.00)
3 x RS-232 (2x5 pin, P=2.00)
4 x USB 2.0 (2x4 pin, P=2.54)
- ◆ TPM: 1 x TPM connector (2x10 pin)
- ◆ Expansions: 1 x PCIe x4 slot
- ◆ 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 fan (1x3 pin)
- ◆ 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 1333 MHz 2 GB 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

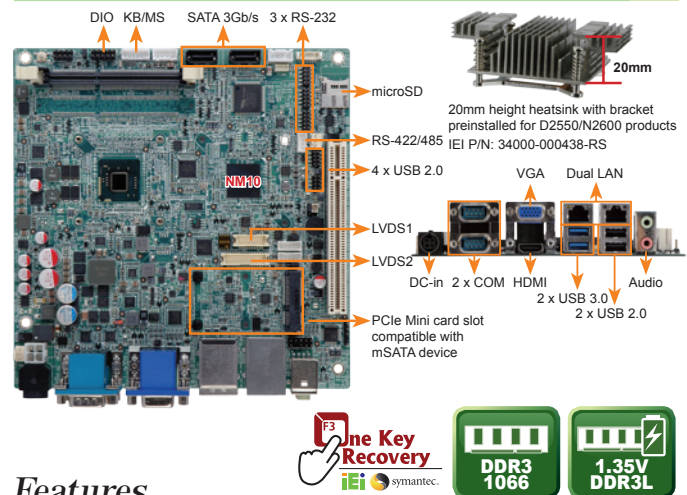
1 x KINO-AH612 single board computer	1 x Mini jumper pack
1 x Dual RS-232 cable	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
2 x SATA cable	1 x Utility CD

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, 6 COM, dual PCIe GbE, SATA 3Gb/s, HD Audio and RoHS
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-C-G440	Intel® Celeron® G440 processor, LGA1155, single core 1.6GHz, 1M 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
19800-003100-300-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
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
SACF-KIT01-R10	SATA to CF converter board
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware v3.17

KINO-CV-D25501/N26001

Mini-ITX SBC with Intel® D2550/N2600 processor, DDR3, VGA/HDMI/dual LVDS, dual GbE, USB 3.0, mSATA, SATA 3Gb/s, audio, RoHS



Features

- Mini-ITX form factor with Intel® D2550/N2600 dual-core processor supports DDR3/DDR3L (1.35V) memory
- Wide range 9V ~ 28V DC input
- Flexible VGA, dual LVDS and HDMI with dual-display support
- Complete I/O: six USB 2.0, two USB 3.0, two SATA 3Gb/s, six COM, audio and mSATA SSD capable
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
1.86GHz Intel® Atom™ D2550 dual-core processor
1.6GHz Intel® Atom™ N2600 dual-core processor
1.86GHz Intel® Atom™ N2800 dual-core processor (optional)
- ◆ Chipset: Intel® NM10
- ◆ BIOS: UEFI BIOS
- ◆ Memory
1 x 1066 MHz DDR3/DDR3L (1.35V) SO-DIMM up to 4 GB (D2550 and N2800)
1 x 800 MHz DDR3/DDR3L (1.35V) SO-DIMM up to 2 GB (N2600)
- ◆ Graphics
Intel® GMA 3650 with 640 MHz graphics core speed for D2550 and N2800
Intel® GMA 3600 with 400 MHz graphics core speed for N2600
- ◆ Display Output
Supports dual LVDS, VGA and HDMI for dual independent display
1 x VGA (up to 2048x1536@75Hz)
1 x HDMI (up to 1920x1200@60Hz)
LVDS1 integrated in D2550/N2600
Single-channel 24-bit LVDS by D2550, resolution support up to 1440x900
Single-channel 18-bit LVDS by N2600 and N2800, resolution support up to 1366x768
LVDS2 supports 24-bit dual-channel by CH7511 DP to LVDS converter
- ◆ Ethernet
Dual LAN: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ External I/O Interface
2 x RS-232 2 x USB 2.0 2 x USB 3.0
- ◆ Internal I/O Interface
1 x KB/MS (1x6 pin) 2 x SATA 3Gb/s
1 x microSD slot (bootable)
1 x RS-422/485 (1x4 pin, P=2.00)
3 x RS-232 (2x5 pin, P=2.00)
4 x USB 2.0 (2x4 pin, P=2.00)
- ◆ Expansions
1 x PCIe Mini card slot (compatible with mSATA SSD storage)
1 x PCI slot
- ◆ Audio: Realtek ALC662 HD Audio codec (line-out, mic-in) (2x5 pin)
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset by Super I/O
- ◆ Power Supply
Maximum input voltage range: 9V ~ 28V
Recommended operating input voltage range: 12V ~ 24V
1 x External 4-pin DIN DC jack
1 x Internal 4-pin (2x2) power connector
- ◆ Fan Connector
1 x CPU fan (1x3 pin) 1 x System fan (1x3 pin)
- ◆ Power Consumption
12V@2.8A (1.86GHz Intel® D2550 CPU with DDR3 1333 MHz 4 GB DIMM)
12V@2.4A (1.6GHz Intel® N2600 CPU with DDR3 1333 MHz 2 GB DIMM)
- ◆ Operating Temperature
-20°C ~ 60°C with free air, -20°C ~ 70°C with force air for D2550 processor
-20°C ~ 70°C with free air, -20°C ~ 75°C with force air for N2600 and N2800 processor
- ◆ Storage Temperature: -30°C ~ 80°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Weight: GW: 600g/NW: 250g

Packing List

1 x KINO-CV-D25501/N26001 single board computer	1 x Mini jumper pack
1 x Dual-port USB cable	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
2 x SATA with 5V output cable Kit	1 x Utility CD

Ordering Information

Part No.	Description
KINO-CV-D25501-R10	Mini-ITX SBC with Intel® Atom™ D2550 1.86GHz, DDR3, VGA/HDMI/dual LVDS, dual GbE, USB 3.0, 9V ~ 28V, SATA 3Gb/s, audio, RoHS
KINO-CV-N26001-R10	Mini-ITX SBC with Intel® Atom™ N2600 1.6GHz, DDR3, VGA/HDMI/dual LVDS, dual GbE, USB 3.0, 9V ~ 28V, SATA 3Gb/s, audio, RoHS
KINO-CV-N28001-R10	Mini-ITX SBC with Intel® Atom™ N2800 1.86GHz, DDR3, VGA/HDMI/Dual LVDS, dual GbE, USB 3.0, 9 ~ 28V, SATA 3Gb/s, audio, RoHS (by project support, MOQ 100pcs / lot)
19FFD124010HB2A7-000001-RS	CPU fan
32000-023800-RS	KB/MS Y cable
32205-003800-300-RS	RS-422/485 cable
34000-000510-RS	30mm higher heatsink