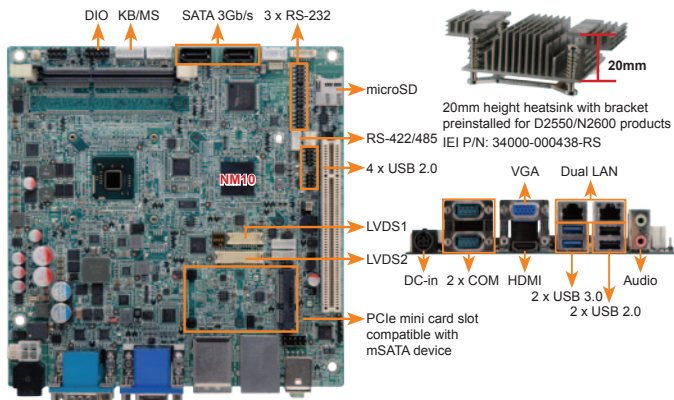


# KINO-CV-D25501/N26001

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

1. Mini-ITX form factor with Intel® D2550/N2600 dual-core processor supports DDR3/DDR3L (1.35V) memory
2. Wide range 9V ~ 28V DC input
3. Flexible VGA, dual LVDS and HDMI with dual-display support
4. Complete I/O: six USB 2.0, two USB 3.0, two SATA 3Gb/s, six COM and audio mSATA SSD capable
5. 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 1066MHz DDR3/DDR3L (1.35V) SO-DIMM up to 4GB (D2550 and N2800)
  - 1 x 800MHz DDR3/DDR3L (1.35V) SO-DIMM up to 2GB (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 2048 x 1536 @75Hz)
  - 1 x HDMI (up to 1920 x 1200 @60Hz)
  - LVDS1 integrated in the 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
- ◆ I/O Interfaces
  - 5 x RS-232
  - 1 x RS-422/485
  - 6 x USB 2.0
  - 2 x USB 3.0
  - 1 x 6-pin KB/MS
  - 1 x microSD slot (bootable)
  - 2 x SATA 3Gb/s with 5V/12V power connecto
  - ◆ Super IO: Fintek F81866
- ◆ Ethernet
  - Dual LAN: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support
- ◆ Digital I/O
  - 8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Expansions
  - 1 x PCIe Mini card slot (compatible with mSATA SSD storage)
  - 1 x PCI slot
- ◆ Audio: Realtek ALC662 HD audio codec
- ◆ 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 3-pin CPU fan connector
  - 1 x 3-pin system fan connector
- ◆ SMBus: 1 x 4-pin connector
- ◆ Power Consumption
  - 12V@2.8A (1.86GHz Intel® D2550 CPU with DDR3 1333MHz 4GB DIMM)
  - 12V@2.4A (1.6GHz Intel® N2600 CPU with DDR3 1333MHz 2GB 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	
2 x SATA with 5V output cable Kit (P/N: 32801-000100-300-RS)	
1 x Dual-port USB cable (P/N: 19800-003000-200-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0038C0-00-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## 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)
32205-003800-300-RS	RS-422/485 cable
32000-023800-RS	KB/MS Y cable
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink

www.ipc2u.ru

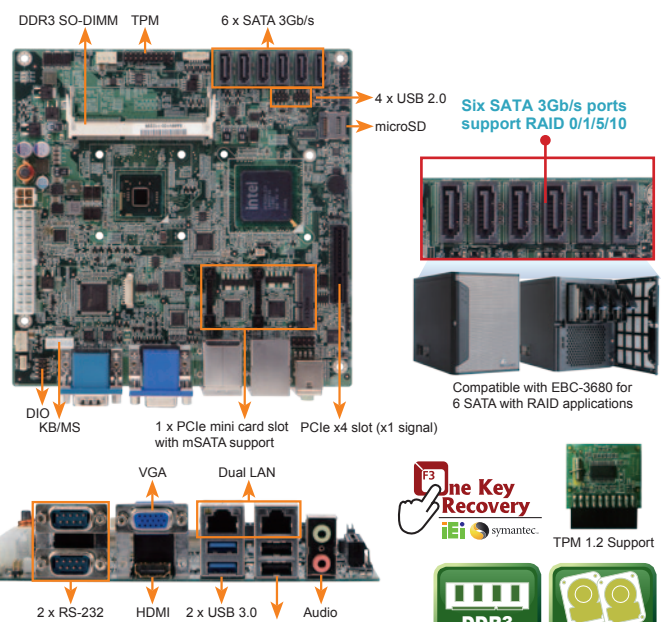
www.ipc2u.de

www.sovio.com

Date:01.06.2016

# KINO-CVR-D25502/N26002

Mini-ITX SBC with Intel® D2550/N2600 Processor, DDR3, VGA/HDMI, Dual GbE, USB 3.0, SATA 3Gb/s, Audio, RoHS



## Features

1. Mini-ITX form factor with Intel® D2550/N2600 dual core processor supporting DDR3 memory
2. Six SATA 3Gb/s with with RAID 0/1/5/10 support for storage market applications
3. Flexible VGA and HDMI with dual-display support
4. PCIe Mini card slot is compatible with mSATA SSD storage
5. 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® ICH10R
- ◆ BIOS: UEFI BIOS
- ◆ Memory
  - 1 x 1066MHz DDR3 SO-DIMM up to 4GB for D2550 and N2800
  - 1 x 800MHz DDR3 SO-DIMM up to 2GB for N2600
- ◆ Graphics
  - 640MHz graphics core speed for D2550 and N2800
  - 400MHz graphics core speed for N2600
- ◆ Display Output
  - Dual display supported
  - 1 x VGA (up to 2048 x 1536 @75Hz)
  - 1 x HDMI (up to 1920 x 1200 @60Hz)
- ◆ Ethernet: Dual LAN: GbE Intel® 82574L controller
- ◆ I/O Interfaces
  - 2 x RS-232
  - 1 x microSD slot
  - 2 x USB 3.0
  - 6 x USB 2.0
  - 1 x TPM connector (2x10 pin)
  - 6 x SATA 3Gb/s with RAID 0/1/5/10 support
  - ◆ Super IO: Fintek F81866
  - ◆ Digital I/O: 8-bit digital I/O programmable
- ◆ Expansions
  - 1 x PCIe Mini card (compatible with mSATA SSD storage)
  - 1 x PCIe x4 slot (x1 signal)
- ◆ Audio: Realtek ALC662 HD audio codec
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset by Super I/O
- ◆ Power Supply
  - ATX power supply, AT/ATX power mode
- ◆ Fan Connector
  - 1 x 4-pin CPU fan connector
  - 1 x 4-pin system fan connector
- ◆ Power Consumption
  - 5V@1.21A, 12V@0.09A, Vcore\_12V@0.32A, 3.3V@0.37A, 5VSB@0.04A (1.86GHz Intel® D2550 with two 1066MHz 2GB DDR3 memory)
- ◆ 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-CVR-D25502/N26002 single board computer	
1 x I/O shielding (P/N: 45014-0038C0-01-RS)	1 x Utility CD
6 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-CVR-D25502-R10	Mini-ITX SBC with Intel® Atom™ D2550 1.86GHz, DDR3, VGA/HDMI, dual GbE, USB 3.0, SATA 3Gb/s, Audio, RoHS
KINO-CVR-N26002-R10	Mini-ITX SBC with Intel® Atom™ N2600 1.6GHz, DDR3, VGA/HDMI, dual GbE, USB 3.0, SATA 3Gb/s, Audio, RoHS
KINO-CVR-N28002-R10	Mini-ITX SBC with Intel® Atom™ N2800 1.86GHz, DDR3, VGA/HDMI, dual GbE, USB 3.0, SATA 3Gb/s, Audio, RoHS (by project support, MOQ 100pcs / lot)
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
32102-000100-200-RS	SATA power cable
19800-003100-300-RS	Dual-port USB cable with bracket
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink