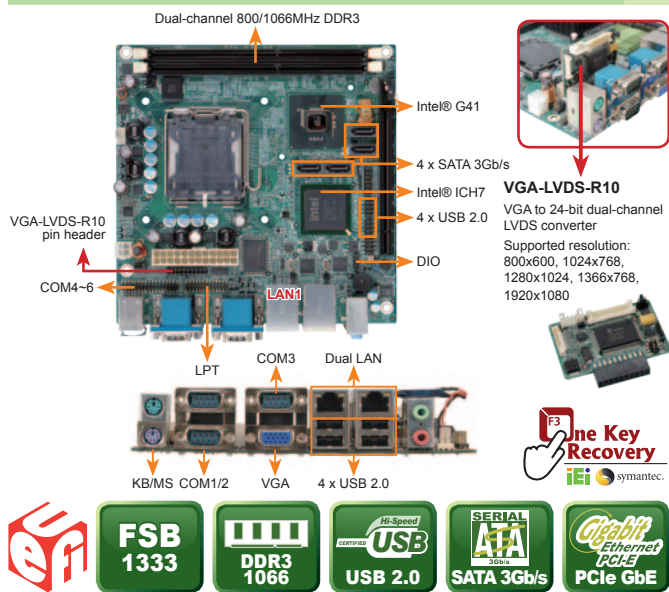


# KINO-G410

Mini-ITX SBC supports LGA775 Intel® Core™2 Quad CPU with a 1333MHz FSB, DDR3, VGA, dual PCIe GbE, six COM, four SATA 3Gb/s, audio and RoHS



## Features

1. LGA775 Intel® Core™2 Extreme/Quad/Duo and Celeron® processor with up to 1333MHz FSB
2. Intel® GMA X4500 delivers an excellent blend of graphics performance
3. Dual-channel 800/1066MHz DDR3 supports up to 8GB
4. LVDS supported by VGA-LVDS-R10 convertor board
5. Complete I/O interfaces for six COM, eight USB, LPT and four SATA 3Gb/s
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU: LGA775 45nm Intel® Core™2 Quad, Core™2 Duo, Pentium® D, Celeron® at FSB 800/1066/1333MHz processors
- ◆ System Chipset: Intel® G41 + ICH7
- ◆ Memory: Two 240-pin 800/1066MHz dual-channel DDR3 SDRAM DIMM supported (System max. 8GB)
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support; LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ Graphics Engine: Intel® GMA X4500
- ◆ Display Interface: VGA integrated in Intel® G41; 24-bit LVDS by VGA-LVDS-R10
- ◆ I/O Interface: 5 x RS-232, 8 x USB 2.0, 1 x LPT, 4 x SATA 3Gb/s, 2 x PS/2 KB/MS, 1 x RS-232/422/485 with auto flow control
- ◆ Super I/O: Fintek F81865
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ Expansion: 1 x PCIe x16 slot
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- ◆ Fan Connector: 1 x 4-pin CPU fan connector, 1 x 3-pin system fan connector
- ◆ Power Supply: ATX power supply
- ◆ Power Consumption: 5V@6.41A, Vcore\_12V@2.52A, 3.3V@0.27A (2.8GHz Intel® Core™2 Duo E7400 with two 1066MHz 1GB DDR3)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW:1100g/NW: 700g

## Packing List

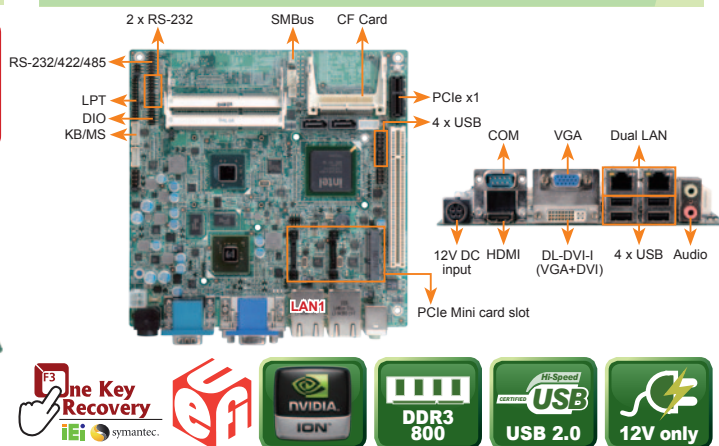
1 x KINO-G410 single board computer	
1 x I/O shielding (P/N: 45014-0014C0-00-RS)	1 x Mini jumper pack
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
KINO-G410-R10	Mini-ITX SBC supports LGA775 Intel® Core™2 Quad CPU with a 1333MHz FSB, DDR3, VGA, Dual PCIe GbE, 6 COM, 4 SATA 3Gb/s and Audio, RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
CF-775A-RS	CPU cooler for 130W
CF-520-RS-R11	CPU cooler for 115W
CF-775B-RS	1U CPU cooler for 90W
32200-015100-RS	LPT cable
32200-026500-RS	RS-232/422/485 cable
19800-000112-RS	Dual RS-232 with bracket cable
VGA-LVDS-R10	VGA to 24-bit dual-channel LVDS convertor module

# KINO-PVN-D5251

Mini-ITX SBC with Intel® Atom™ D425/D525, VGA/DVI-DL/HDMI by Nvidia GT218-ION, Dual GbE, Audio, USB 2.0 and SATA 3Gb/s, RoHS



## Features

1. Mini-ITX form factor with Intel® Atom™ D525/D425 processor
2. 12V single voltage input designed for AT/ATX power
3. Two 800MHz DDR3 SO-DIMM slots support up to 4GB memory
4. Excellent graphics engine supports VGA, dual-link DVI-I, HDMI by Nvidia GT218-ION for dual independent display
5. Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, one LPT, four COM and audio
6. 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)
- ◆ Chipset: ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory: Two 204-pin 800MHz DDR3 SDRAM SO-DIMMs supported (system max. 4GB) for D525
- ◆ Graphic: On-board NVIDIA GT218-ION graphics chip with 512MB DDR3 memory
- ◆ Display Interface: Dual display supported: 1 x VGA, 1 x HDMI, 1 x DVI-I
- ◆ Ethernet: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support; LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
- ◆ I/O Interfaces: 1 x LPT, 8 x USB 2.0, 1 x KB/MS, 2 x SATA 3Gb/s, 3 x RS-232, 1 x CF Type II, 1 x RS-232/422/485 with auto flow control
- ◆ SMBus: 1 x 4-pin wafer connector
- ◆ Expansion: 1 x PCI slot, 1 x PCIe x1 slot, 1 x PCIe Mini card slot
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ 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
- ◆ Super I/O: Fintek F81865
- ◆ Fan Connector: 1 x 4-pin CPU fan connector, 1 x 3-pin system fan connector
- ◆ Power Consumption: 12V@3.44A (Intel® Atom™ D525 1.8GHz with two 1333MHz 2GB DDR3 DIMM); 12V@3.11A (Intel® Atom™ D425 1.8GHz with two 1333MHz 2GB 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: 360g

## Packing List

1 x KINO-PVN-D5251 single board computer	
1 x SATA with 5V/12V output cable kit (P/N: 32801-000100-300-RS)	
1 x SATA with 5V output cable kit (P/N: 32801-000201-300-RS)	1 x One Key Recovery CD
1 x RS-232 cable with bracket (P/N: 19800-000300-100-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45014-0032C0-00-RS)	1 x QIG
1 x DVI to VGA Adaptor (P/N: 33Z00-000031-RS)	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-PVN-D5251-R10	Mini-ITX SBC with Intel® Atom™ D525 1.8GHz/1MB L2 cache, DDR3, VGA/DVI-I DL/HDMI by Nvidia GT218, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
32000-0023800-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
19800-004300-100-RS	RS-232/422/485 cable with bracket
19800-003100-300-RS	Dual-port USB cable
PCIER-K101L-R10	PCIe x1 riser card
19FFD124010HB2A7-000001-RS	CPU fan
34000-000510-RS	30mm higher heatsink