

KINO-945GSE2

Mini-ITX SBC with 36+48 bits LVDS support dual display

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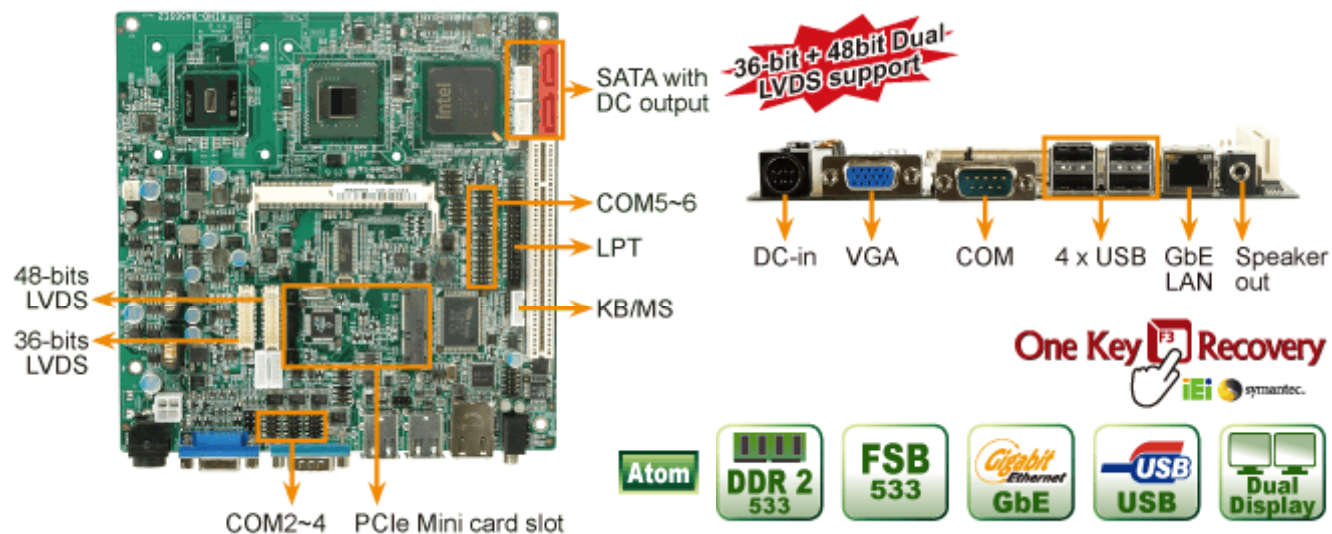
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KINO-945GSE2

Mini-ITX SBC with Intel® Atom™ N270 1.6G, DC 12V input, VGA/ 36+48 bits LVDS/HDTV, Dual PCIe GbE, USB2.0, SATA and Audio



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Features

1. Intel® Atom™ Processor N270 1.6GHz for fan-less support
2. DDR2 400/533 SO-DIMM memory support up to 2GB
3. Support PCIe mini card, PCI slot for expansion
4. 36+48 bits LVDS support dual display output

All in one DC Power Design

KINO-945GSE2 integrated DC to DC power module on board supports single voltage 12V DC input. No extra DC power board needed for entire system integration.



Option 1

AC in by power adapter

90VAC~264VAC;12V;60W Power Adaptor

63000-FSP0601AD101C746-RS



Option 2

DC in by terminal block

One 4-pin(2x2) to one 4-pin(1x4) DC power cable with terminal block

32100-192900-RS



General embedded system
Motherboard + DC power module



DC power module on board benefit

- Economy
- High efficiency
- Compact design

Dual LVDS for TFT Panel Support

KINO-945GSE2 integrated dual LVDS to support dual channel 18 bits and 24 bits TFT panel, low profile IO interface design for compact embedded system.





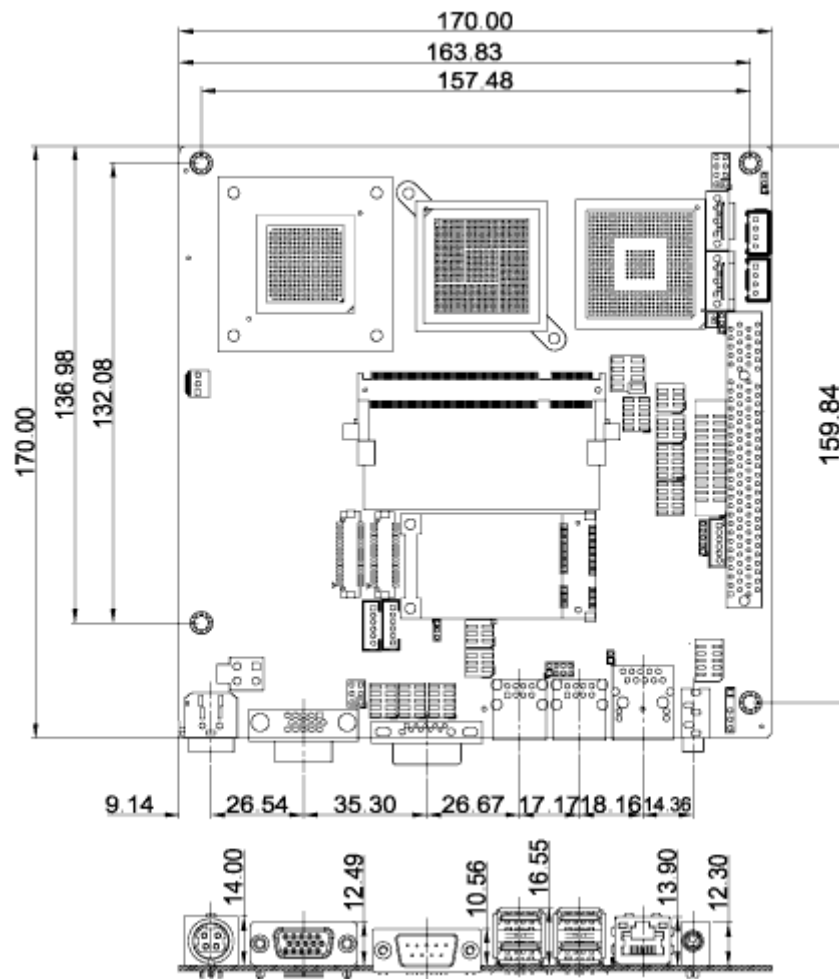
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Specifications

- **CPU**
Intel® Atom™ Processor N270 1.6GHz with a 533MHz FSB
- **System Chipset**
Intel® 945GSE+ICH7M
- **BIOS**
AMI BIOS
- **Memory**
One 200-pin 400/533 DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- **Ethernet**
1 x Realtek PCIe 8111CP GbE Chipsets
- **I/O Interface**
6 x USB2.0 (4 on rear, 2 by pin header)
1 x LPT
2 x SATA with DC power
1 x RS-232 (Rear IO)
3 x RS-232 (by pin header)
2 x RS-232/422/485 (by pin header)
1 x 6-pin box header (2.0mm pitch) for KB/MS
- **Graphic**
On Intel® Graphics Media Accelerator 950
- **Display Output**
VGA integrated in Intel® 945GSE
Support HDTV resolution up to 1080i by component interface
18 bit Dual channel LVDS by Intel® 945GSE
24 bit Dual channel LVDS by Chrontel CH7308B
- **Expansion**
1 x PCI
1 x PCIe mini card
- **Digital I/O**
8-bit digital I/O, 4-bit input/ 4-bit output
- **Infrared Interface**
1 x Infrared interface by pin header
- **Super IO**
Fintek 81865
- **Audio**
Realtek ALC655 AC'97 Codec
- **Watchdog Timer**
Software programmable support 1~255 sec. system reset
- **DC connector**
2pcs 1 x 4-pin 5V power connector (Major for 2.5" HDD used)
- **Power Supply**
Single voltage 12V DC input
1 x external DIN 4pin DC jack
1 x internal 2 x 2-pin power connector
- **Power Consumption**
1.73A@12V (Intel® Atom™ N270 1.6GHz with 2GB DDR2)
- **Temperature**
Operation: -10°C ~ 60°C
- **Humidity**
Operation: 5% ~95% non-condensing
- **Dimensions**
170mm x 170mm
- **Weight**
GW: 1000g / NW: 350g

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Dimensions(mm)



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Packing List

1 x KINO-945GSE2 single board computer	1 x Audio cable (PN:32000-072100-RS)
1 x I/O shielding (P/N: 45014-0031C0-00-RS)	1 x Mini Jumper Pack
1 x KB/MS Y cable (PN:32000-023800-RS)	1 x Utility CD
1 x Dual RS-232 cable (PN:19800-000112-RS)	1 x QIG
2 x SATA 5V power output Cable Kit (P/N: 32000-106100-RS)	

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Ordering Information

Model	Description
KINO-945GSE2-N270-R10	Mini-ITX SBC with Intel® Atom™ N270 1.6G, 12V DC input, VGA/ 18+24 bits LVDS/HDTV, PCIe GbE, USB2.0, SATA and Audio
CB-USB02-RS	Dual USB cable
HDTVCABLESET-01	HDTV cable set with S-Video, composite and component Interfaces
32100-192900-RS	One 4-pin (2x2) to one 4-pin(1x4) DC power cable with terminal block
32200-015100-RS	LPT cable
63000-FSP0601AD101C746-RS	60W/12V Power Adaptor 90VAC~260VA, DIN 4 PIN

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