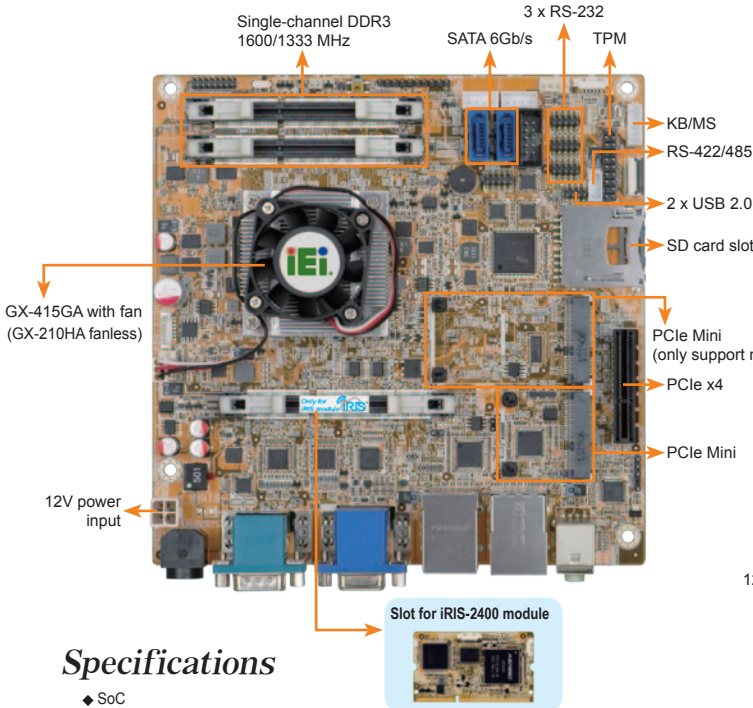


# KINO-KBN-i2

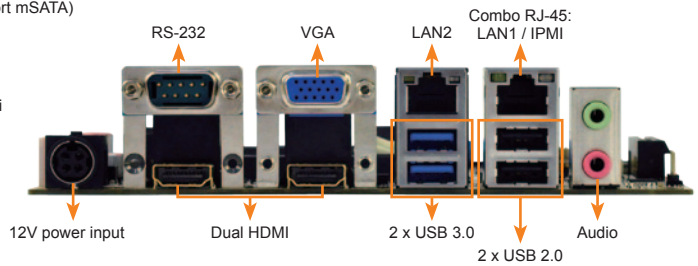
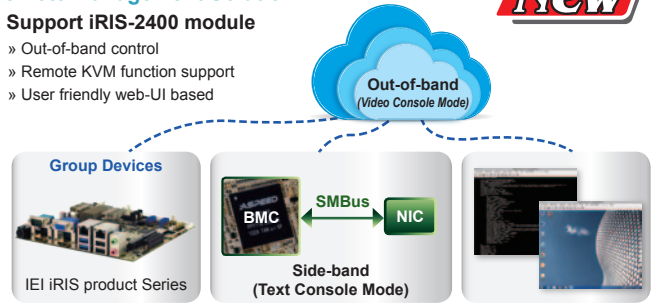
Mini-ITX SBC with AMD® Embedded G-Series SoC with VGA/Dual HDMI, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6Gb/s, HD Audio, IPMI and RoHS



## Remote Management Solution

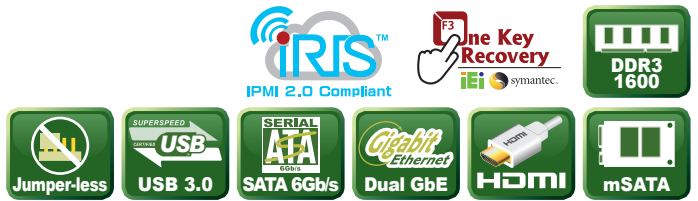
### Support iRIS-2400 module

- » Out-of-band control
- » Remote KVM function support
- » User friendly web-UI based



## Specifications

- ◆ SoC
  - AMD® Embedded G-Series SoC
  - GX-415GA on-board SoC (1.5GHz, quad-core, 2MB cache, TDP=15W with fan solution)
  - GX-210HA on-board SoC (1.0GHz, dual-core, 1MB cache, TDP=9W with fanless solution)
  - GX-420CA on-board SoC (2.0GHz, quad-core, 2MB cache, TDP=25W with fan solution) (by request)
  - GX-217GA on-board SoC (1.65GHz, dual-core, 1MB cache, TDP=15W with fanless solution) (by request)
- ◆ BIOS
  - AMI UEFI BIOS
- ◆ Memory
  - Two 204-pin 1600/1333MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 8GB
- ◆ Graphics Engine
  - GPU frequency 500MHz (Radeon™ HD 8330E) for GX-415GA
  - GPU frequency 300MHz (Radeon™ HD 8310E) for GX-210HA
  - GPU frequency 600MHz (Radeon™ HD 8400E) for GX-420CA
  - GPU frequency 450MHz (Radeon™ HD 8280E) for GX-217GA
  - Support DX11.1, OpenGL 4.1 and OpenCL 1.2
  - UVD4.2 decode for H.264, MPEG2/4, VC1, MVC
  - VCE 2.0 encode for H.264, VCE
- ◆ Display Out
  - VGA (up to 2048x1536@60Hz)
  - HDMI (up to 1920x1200@60Hz)
- ◆ Ethernet
  - LAN1: Intel® I210-AT PCIe controller with NCSI support
  - LAN2: Intel® I211-AT PCIe controller
- ◆ Super IO: Fintek F81866
- ◆ I/O Interfaces
  - 1 x RS-422/485
  - 1 x SD card
  - 2 x USB 3.0 (2 on rear I/O)
  - 1 x mSATA (colay SATA port 2)
  - 4 x RS-232 (1 on rear I/O, 3 by pin header)
  - 2 x SATA 6Gb/s with SATA power connector
  - 4 x USB 2.0 (2 on rear I/O, 2 by pin header)
  - 1 x 6-pin wafer for PS/2 KB/MS
- ◆ iRIS Remote Management Module: 1 x iRIS-2400 slot
- ◆ SMBus: 1 x 4-pin (1x4) wafer
- ◆ Audio
  - Realtek AL892 HD Audio codec
  - 1 x S/PID by 4-pin (1x4) header for digital audio
  - 1 x Line-out / Mic-in audio jack on rear IO
- ◆ Front Panel: 1 x Front panel (Power LED, HDD LED, Power Button, Reset Button)
- ◆ LAN LED: 2 x 2-pin headers for LAN1 Link LED, LAN2 Link LED
- ◆ Expansion
  - 1 x Half-size PCIe Mini card slot
  - 1 x PCIe x4 slot
- ◆ Digital I/O: 8-bit digital I/O (4-bit input / 4-bit output)
- ◆ Fan Connector: 1 x 4-pin system fan connector
- ◆ Watchdog Timer: Software programmable, support 1~255 sec. system reset
- ◆ Power Supply
  - 12V only DC input
  - 1 x External DC jack (4-pin DIN)
  - 1 x Internal 4-pin (2x2) power connector
  - Support AT/ATX mode
- ◆ Power Consumption
  - +12V@ 1.45A (AMD GX-415GA 1.5GHz CPU with 1333MHz 2GB DDR3 memory)
- ◆ Operating Temperature: 0°C ~ 60°C
- ◆ Storage Temperature: -10°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW:600g/ NW:250g



## Features

1. Mini-ITX form factor with AMD® Embedded G-Series SoC
2. 12V only single voltage design with AT/ATX support
3. Dual independent display by VGA and dual HDMI
4. Support dual PCIe Mini card slot for mSATA, wireless card and DOM
5. Support IPMI 2.0 with iRIS module
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

1 x KINO-KBN-i2 single board computer with CPU cooler
2 x SATA with power output cable kit (P/N:32801-000100-300-RS)
1 x I/O shielding (P/N: 45014-0029C0-00-RS)
1 x One Key Recovery CD
1 x QIG
1 x Utility CD

## Ordering Information

Part No.	Description
KINO-KBN-i2-4151-R10	Mini-ITX SBC supports AMD® 28nm quad-core GX-415GA 1.5GHz (15W) on-board SoC with VGA/Dual HDMI, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6Gb/s, iRIS-2400, audio and RoHS
KINO-KBN-i2-2101-R10	Mini-ITX SBC supports AMD® 28nm dual-core GX-210HA 1.0GHz (9W) on-board SoC with VGA/Dual HDMI, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6Gb/s, iRIS-2400, audio and RoHS
iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface
19800-000300-100-RS	RS-232 cable with bracket, 300mm
CB-USB02A-RS	Dual-port USB cable with bracket, 300mm
32205-003800-300-RS	RS-422/485 cable, 200mm

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