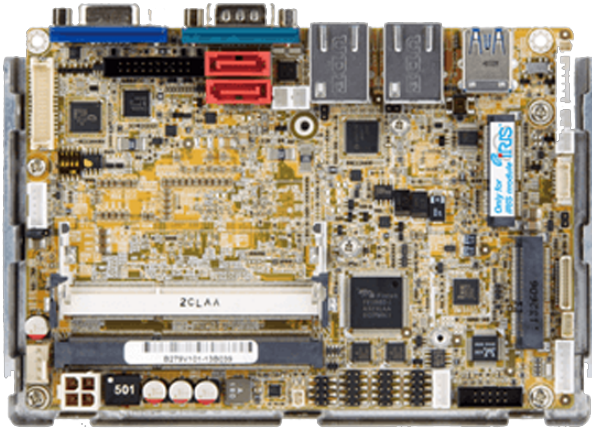


# WAFER-KBN-i1

3.5" SBC supports AMD® Embedded G-Series SoC



## Features

- » 3.5" form factor with AMD® Embedded G-Series SoC
- » 12V only single voltage design with AT/ATX mode
- » 18/24-bit dual-channel LVDS for high resolution panel
- » Dual independent display by VGA, LVDS and iDP
- » Support IPMI 2.0 with iRIS-1010 module
- » Support full-size PCIe Mini card slot for mSATA, wireless card and DOM
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

| System                   |   |
|--------------------------|---|
| CPU                      | AMD® Embedded G-Series SoC  |
|                          | GX-415GA on-board SoC (1.5GHz, quad-core, 2MB cache, TDP=15W)                                     |
|                          | GX-210HA on-board SoC (1.0GHz, dual-core, 1MB cache, TDP=9W)                                      |
|                          | GX-420CA on-board SoC (2.0GHz, quad-core, 2MB cache, TDP=25W)                                     |
|                          | GX-217GA on-board SoC (1.65GHz, dual-core, 1MB cache, TDP=15W)                                    |
| Memory                   | One 204-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM SO-DIMM                                 |
| Memory Max.              | 8GB   |
| Physical Characteristics |   |
| Dimensions (LxWxH) (mm)  | 146 X 102   |
| Net Weight               | 250   |
| Storage                  |   |
| Storage                  | 2 x SATA :3Gb/s   |
| I/O Interface            |   |
| Display Output           | 1 x VGA :up to 2048x1536@60Hz   |
|                          | 1 x LVDS :18-bit singel-channel (up to 1920x1200@60Hz)  |
|                          | 1 x iDP :for HDMI™, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)                                     |
| Ethernet                 | 2 x LAN :1 x Intel® I210-AT PCIe controller with NCSI support, 1 x Intel® I211-AT PCIe controller |
| Audio                    | 1 x Description: Realtek AL892 HD Audio codec   |
|                          | 1 x S/PDIF :1x4 pin   |
|                          | 1 x Front Audio :2x5 pin  |
| I/O Interface            | 2 x Internal RS-232 :2x5 pin, P=2.0   |
|                          | 1 x Internal RS-422/485 :1x4 pin, P=2.0   |
|                          | 4 x Internal USB 2.0 :2x4 pin, P=2.0  |
|                          | 1 x PS/2 :1x6 pin   |
| Expansion                | 1 x PCIe mini Card Slot :Support mSATA co-layout SATA port 2                                      |
| Other Features           |   |
| iRIS                     | 1 X iRIS-1010 slot  |
| Power                    |   |

|                       |  |
|-----------------------|--|
| Power Consumption     | +12V@2.12A (AMD GX-415GA 1.5GHz CPU with one 4GB 1333 MHz DDR3 memory)           |
| Power Supply          | 12 V only DC input, 1 x internal power connector(2 x 2 pin), support AT/ATX mode |
| Environment           |  |
| Operating Temperature | 0°C ~ 60°C   |
| Storage Temperature   | -10°C ~ 70°C   |
| Humidity              | 5% ~ 95%, non-condensing   |
| Certifications        |  |
| Safety & EMC          | CE/FCC compliant   |

## Ordering Information

|                       |  |
|-----------------------|--|
| WAFER-KBN-i1-4151-R11 | 3.5" SBC supports AMD® 28nm Quad-Core GX-415GA 1.5GHz (15W) on-board SoC with VGA/LVDS, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6GB/s, Audio, iRIS-1010 and RoHS |
| WAFER-KBN-i1-2101-R11 | 3.5" SBC supports AMD® 28nm Dual-Core GX-210HA 1.0GHz (9W) on-board SoC with VGA/LVDS, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6GB/s, Audio, iRIS-1010 and RoHS  |

## Packing List

|  |                                   |
|--|-----------------------------------|
| 1 x WAFER-KBN-210H single board computer with Enclosure Heatsink | 1 x Audio cable                   |
| 1 x Power cable  | 1 x RS-232 cable                  |
| 1 x QIG  | 2 x SATA with 5V output cable kit |