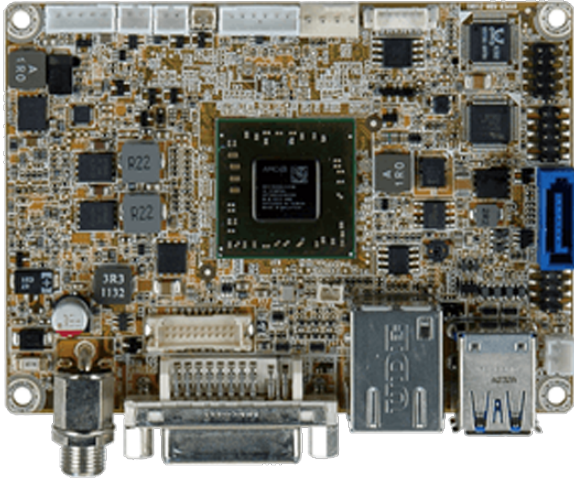


# HYPER-KBN

Pico-ITX SBC Supports AMD® Embedded G-Series SoC



## Features

- » Pico-ITX form factor with AMD® Embedded G-Series SoC supports DDR3/DDR3L up to 1600 MHz memory
- » 12V only single voltage design for AT/ATX power by DC power jack
- » DVI-I and 18-bit single-channel LVDS support for dual display
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

|                       |   |
|-----------------------|---|
| Display               |   |
| Display               | DVI-I (DVI-D up to 1920x1200@60Hz, VGA up to 2048x1536@60Hz)                            |
|                       | 18-bit single-channel LVDS (up to 1600x900@60Hz)  |
| Environment           |   |
| Humidity              | 5% ~ 95%, non-condensing  |
| Operating Temperature | 0°C ~ 60°C  |
| I/O Interface         |   |
| Audio                 | Realtek AL662 HD Audio codec  |
|                       | 1 x Analog audio (2x5 pin)  |
| Ethernet              | LAN: Realtek RTL8111E controllers with ASF2.0 supported                                 |
| I/O Interface         |   |
| I/O Interface         | 2 x USB 3.0   |
|                       | 1 x Internal RS-232   |
|                       | 2 x Internal USB 2.0  |
| Power                 |   |
| Power consumption     | +12V@1.45A (AMD GX-415GA 1.5GHz CPU with one 2GB 1333 MHz DDR3 memory)                  |
| System                |   |
| CPU                   | 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) (support fanless solution) |
|                       | 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)                          |
| CPU Socket            | On Board  |
| Memory Max.           | One 204-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMM               |
|                       | supports up to 8GB  |
| Storage               | 1 x SATA 6Gb/s with 5V SATA power connector   |
| Watchdog Timer        |   |
| Watchdog Timer        | Software programmable, support 1~255 sec. system reset                                  |

## Ordering Information

|                     |   |
|---------------------|---|
| HYPERS-KBN-4151-R10 | PICO-ITX SBC with AMD G-Series GX-415GA SoC processor,DDR3 DVI-I/LVDS,GbE,USB 3.0,SATA 6Gb/s,HD Audio and RoHS  |
| HYPERS-KBN-2101-R10 | PICO-ITX SBC with AMD G-Series GX-210HA SoC processor,DDR3 DVI-I/LVDS,GbE, USB 3.0,SATA 6Gb/s,HD Audio and RoHS |

## Packing List

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| 1 x HYPERS-KBN single board computer | 1 x Audio cable                   |
| 1 x RS-232 cable                     | 1 x SATA with 5V output cable kit |
| 1 x Special heatsink                 | 1 x QIG                           |