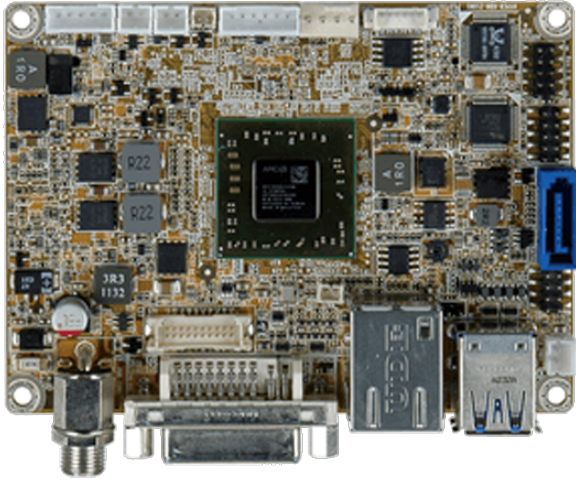


## HYPER-KBN

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

|                    |                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| HYPER-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  |
| HYPER-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 HYPER-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                           |