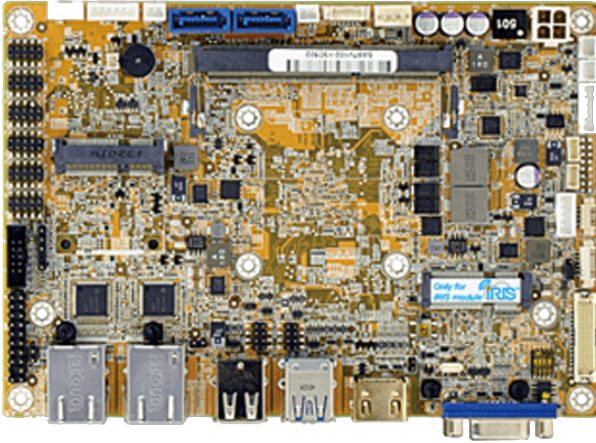


# NANO-KBN-i1

EPIC SBC supports AMD® Embedded G-Series SoC



## Features

- » EPIC SBC supports AMD® Embedded G-Series SoC
- » Dual independent display support
- » 1.35V DDR3L 1600/1333 MHz SDRAM supports up to 8 GB
- » HD Audio supported by S/PDIF
- » Support IPMI 2.0 with iRIS-1010 module
- » COM, USB 3.0, SATA 6Gb/s PCIe Mini, mSATA and audio supported
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

| System                   |   |
|--------------------------|---|
| CPU                      | AMD® Embedded G-Series "Steppe Eagle" SoC                                     |
|                          | GX-424CC on-board Soc (2.4GHz, quad-core, 2MB cache, TDP=25W)                 |
|                          | AMD® Embedded G-Series "eKabini" SoC  |
|                          | GX-415GA on-board Soc (1.5GHz, quad-core, 2MB cache, TDP=15W)                 |
|                          | AMD® Embedded G-Series "LX" SoC   |
|                          | GX-210KL on-board Soc (1.0GHz, dual-core, 1MB cache, TDP=4.5W)                |
| Memory                   | One 204-pin 1600/1333 MHz singlechannel DDR3 & DDR3L SDRAM unbuffered SO-DIMM |
| Memory Max.              | 8GB   |
| Physical Characteristics |   |
| Dimensions (LxWxH) (mm)  | 115 X 165   |
| Net Weight               | 350g  |
| Storage                  |   |
| Storage                  | 2 x SATA :6Gb/s with 5V SATA power connector(no RAID)                         |
| I/O Interface            |   |
| Display Output           | 1 x VGA :up to 2048x1536@60Hz   |
|                          | 1 x HDMI™ :up to 3840x2160@60Hz   |
|                          | 1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz)                       |
| Ethernet                 | 2 x LAN :LAN1: Intel® I210-AT PCIe controller with NCSI support               |
|                          | LAN2: Intel® I211-AT PCIe controller  |
| Audio                    | Description: Realtek ALC892 HD Audio codec                                    |
|                          | 1 x S/PDIF :1x4 pin   |
|                          | 1 x Speaker :2x5 pin  |
| I/O Interface            | 5 x Internal RS-232 :2x5 pin, p=2.0   |
|                          | 1 x Internal RS-422/485 :1x4 pin, p=2.0                                       |
|                          | 2 x External USB 2.0  |

|                       |  |
|-----------------------|--|
|                       | 2 x External USB 3.2 Gen1x1  |
|                       | 4 x Internal USB 2.0 :2x4 pin, p=2.0                                 |
|                       | 1 x PS/2 :1x6 pin  |
| Expansion             | 1 x PCIe mini Card Slot :Full-Size(support mSATA co-lay SATA port 2) |
| Other Features        |  |
| TPM                   | 2x10 pin   |
| Power                 |  |
| Power Consumption     | 12V@1.02A (AMD GX-415GA 1.5GHz CPU with 1600 MHz 8 GB DDR3 memory)   |
| Power Supply          | 12V only DC input  |
|                       | 1 x Internal power connector (2x2 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

|                      |   |
|----------------------|---|
| NANO-KBN-i1-4151-R10 | EPIC SBC supports AMD® 28nm Quad-Core 1.5GHz (15W) on-board SoC with DVI-I/HDMI™/LVDS, Dual PCIe GbE, USB 3.0, Dual PCIe Mini, SATA 6Gb/s, mSATA , COM, iRIS-1010 and Audio |
| NANO-KBN-i1-2101-R10 | EPIC SBC supports AMD® 28nm Dual-Core 1.0GHz (9W) on-board SoC with DVI-I/HDMI™/LVDS, Dual PCIe GbE, USB 3.0, Dual PCIe Mini, SATA 6Gb/s, mSATA , COM, iRIS-1010 and Audio  |

## Packing List

|   |                               |
|---|-------------------------------|
| 1 x NANO-KBN-i1 single board computer with enclosure heatsink | 1 x Audio cable               |
| 1 x Power cable   | 2 x RS-232 cable              |
| 1 x QIG (Quick Installation Guide)                            | 2 x SATA with power cable kit |