

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 |