

*单板电脑*

*嵌入式主板*



NANO-SE-i1/KBN-i1

EPIC SBC supports AMD® Embedded G-Series SoC with VGA/HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, mSATA, COM, iRIS-1010 and RoHS



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 单通道 DDR3 1600/1333 MHz |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | RS-422/485 SATA 6Gb/s |  |  |  |  |  | 前面板 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 x RS-232 |  |  |  |  | 12V 电源输入 |  |  |  |  |  |  |  |  |  |  | 支持TPM |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| DIO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.2 |  |  |  |  |  |  |  |  |  |  |  |  |
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| 音频 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Combo RJ-45: | 2 x USB 3.0 VGA |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TPM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | LAN1 / IPMI |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | LVDS |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | PCIe Mini (支持 mSATA) |  | 4 x USB 2.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 x USB 2.0 |  |  |
| *产品规格* |  |  |  |  |  |  |  |  |  | Slot for iRIS- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 1010 module |  |  |  |  |  |  |  |  |  |  |  |  |
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*w w w . i e i w o r l d . c o m . c n*



NANO-QM871-i1

EPIC SBC supports 4th Generation Intel® Mobile Processor with VGA/ Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, iRIS-1010



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 12V DC 输入 | PCIe 迷你卡插槽 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (compatible with mSATA) | 前面板 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | SMBus |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  | 5V SATA power |  |  |  |  |  |
|  | 4th Gen. |  |  |  |  |  |  |  |  |  |  | 2 x SATA 6Gb/s |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | CPU |  |  |  |  |  |  |  |  |  |  | KB/MS | 支持 TPM |  |  |  |  |  |  |
|  |  |  | QM87 |  |  |  |  |  |  |  |  | RS-422/485 | 1.2 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | TPM | Slot for iRIS- |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 2 x RS-232 | 1010 module |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Solder Side |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | DIO |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  | 2 x USB 2.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Audio I/F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 2 x USB 2.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | LVDS |  | 2 x LAN LED |  |  |  |  |  |  |  | LAN2 / IPMI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*1*

工业电脑

解决方案

SoC



* AMD® 嵌入式 G-系列 "Steppe Eagle" SoC GX-424CC 板载 Soc (2.4GHz, 四核, 2MB 缓存, TDP=25W)

GX-412HC 板载 Soc (1.2GHz, 四核, 2MB 缓存, TDP=7W)

GX-212JC 板载 Soc (1.2GHz, 双核, 1MB 缓存, TDP=6W)

GX-411GA 板载 Soc (1.0GHz, 四核, 2MB 缓存, TDP=15W)

GX-209HA 板载 Soc (1.0GHz, 双核, 1MB 缓存, TDP=9W)

* AMD® 嵌入式 G-系列 "eKabini" SoC GX-415GA 板载 Soc (1.5GHz, 四核, 2MB 缓存, TDP=15W)

GX-210HA 板载 Soc (1.0GHz, 双核, 1MB 缓存, TDP=9W)

GX-420CA 板载 Soc (2.0GHz, 四核, 2MB 缓存, TDP=25W)

GX-217GA 板载 Soc (1.65GHz, 双核, 1MB 缓存, TDP=15W)

* AMD® 嵌入式 G-系列 "LX" SoC GX-218GL 板载 Soc (1.8GHz, 双核, 1MB 缓存, TDP=15W)

GX-215GL 板载 Soc (1.5GHz, 双核, 1MB 缓存, TDP=15W)

GX-210KL 板载 Soc (1.5GHz, 双核, 1MB 缓存,

TDP=4.5W)

BIOS: AMI UEFI BIOS

内存: 一个 204-pin 1600/1333 MHz 单通道 DDR3



* DDR3L SDRAM 无缓冲 SO-DIMM 插槽，支持高达 8 GB

图形引擎

支持 DX11.1, OpenGL 4.1 and OpenCL1.2 UVD4.2 decode for H.264, MPEG2/4, VC1, MVC VCE 2.0 encode for H.264, VCE

显示输出

独立双显

1 x VGA (分辨率最高达 2048x1536@60Hz)

1 x HDMI (高达 3840x2160@60Hz)

1 x 18/24-bit 双通道 LVDS (高达 1920x1200@60Hz)

LAN LED: 2 x LAN LED (1x2 pin)

以太网

*包装清单*

LAN1: Intel® I210-AT PCIe 控制器支持 NCSI

LAN2: Intel® I211-AT PCIe 控制器

外部 I/O 接口

2 x USB 2.0 2 x USB 3.0 内部 I/O 接口

1 x KB/MS (1x6 pin)

4 x USB 2.0 (2x4 pin, P=2.0)

1 x RS-422/485 (1x4 pin, P=2.0)

5 x RS-232 (2x5 pin, P=2.0)

2 x SATA 6Gb/s with 5V SATA 电源接口 (不支持RAID)

iRIS 远程管理模块

1 x iRIS-1010 插槽 (NANO-GLX-2101-R10 support by request)

TPM: 1 x TPM (2x10 pin)

SMBus: 1 x SMBus (1x4 pin)

I²C: 1 x I²C (1x4 pin)

音频

Realtek ALC892 HD 音频解码器

1 x 前面板音频 (2x5 pin)

1 x S/PDIF (1x4 pin)

前面板

1 x 电源 LED & HDD LED (1x6 pin)

1 x 电源按键 (1x2 pin)

1 x 复位按键 (1x2 pin)

扩展: 1×全长PCIe 迷你卡插槽 (支持 mSATA co-lay SATA port 2)

看门狗定时器: 软件可编程，支持 1~255 秒系统复位

数字 I/O: 8-bit 数字 I/O (2x5 pin)

风扇接口: 1 x 系统风扇 (1x4 pin)

电源: 仅 12V DC 输入

1 x 内置电源接口 (2x2 pin)

支持 AT/ATX 模式

功耗

12V@1.02A (AMD GX-415GA 1.5GHz CPU with

1600 MHz 8 GB DDR3 内存)

操作温度: 0°C ~ 60°C

存储温度: -10°C ~ 70°C

工作湿度: 5% ~ 95%, 无冷凝

尺寸: 115mm x 165mm

重量: GW: 850g / NW: 350g CE/FCC compliant

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *产品规格* | 2 x HDMI |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 2 x USB 3.0 LAN1 VGA | DDR3 SO-DIMM |  |
|  |  |  |
|  |  |  |  |  |  |  |  | 1333/1066 MHz |  |
| CPU |  |  |  | 2 x USB 2.0 | 2 x USB 3.0 |  |
| Intel® mobile Core™ i7-4700EQ 板载处理器 |  | 内部 I/O 接口 |  |  |
| 支持 Intel® AMT 9.0 |  |  |  | 1 x KB/MS (1x6 pin) |  |  |
| (2.4GHz, 四核, 6MB 缓存, TDP=47W) |  | 1 x RS-422/485(1x4 pin, P=2.0) |  |
| Intel® mobile Core™ i5-4400E 板载处理器支 |  | 2 x RS-232 (2x5 pin, P=2.0) |  |
| 持 Intel® AMT 9.0 |  |  |  | 2 x SATA 6Gb/s with 5V SATA 电源接口 (支持RAID |  |
| (2.7GHz, 双核, 3MB 缓存, TDP=37W) | 0,1 ) |  |  |  |
| Intel® mobile Core™ i3-4100E 板载处理器 |  | 2 x USB 2.0 (2x4 pin, P=2.0) |  |
| (2.4GHz, 双核, 3MB 缓存, TDP=37W) |  | iRIS 远程管理模块: 1 x iRIS-1010 插槽 |  |
| Intel® mobile Celeron® 2000E 板载处理器 |  | 音频 |  |  |
| (2.2GHz, 双核, 2MB 缓存, TDP=37W) |  | Realtek ALC662 HD 音频解码器 |  |
| Intel® mobile Core™ i5-4402E 板载处理器支 |  | 1 x 前面板音频 (2x5 pin) |  |
| 持 Intel® AMT 9.0 |  |  |  | 前面板: 1 x 前面板 (2x5 pin) |  |
| (1.6GHz, 双核, 3MB 缓存, TDP=25W) |  | LAN LED: 2 x LAN LED (1x2 pin) |  |
| Intel® mobile Core™ i3-4102E 板载处理器 |  | 扩展 |  |  |
| (1.6GHz, 双核, 3MB 缓存, TDP=25W) |  | 1×全长PCIe 迷你卡插槽 (支持 mSATA) |  |
| Intel® mobile Celeron® 2002E 板载处理器 |  | 1 x PCIe/104 Type 2 插槽 (可选) |  |
| (1.5GHz, 双核, 2MB 缓存, TDP=25W) |  | 看门狗定时器: 软件可编程，支持 1~255 秒系统复位 |  |
| 芯片组: Intel® QM87 |  |  |  | 数字 I/O: 8-bit 数字 I/O (2x5 pin) |  |
| BIOS: UEFI BIOS |  |  |  | 风扇接口 |  |  |
| 内存: 一个 204-pin 1600/1333 MHz 双通道 |  | 1 x CPU 风扇 (1x4 pin) |  |  |
| DDR3 & DDR3L SDRAM unbuffered DIMM |  | 1 x 系统风扇 (1x4 pin) |  |  |
| 支持高达 8 GB |  |  |  | 电源 |  |  |
| 图形引擎 |  |  |  | 仅 12V DC 输入 |  |  |
| Intel® HD 显卡 Gen 7.5 supports DX11.1 |  | 1 x 内置电源接口 (2x2 pin) |  |
| and OpenCL 1.2, OpenGL 3.2 |  |  |  | 支持 AT/ATX 模式 |  |  |
| Full MPEG2, VC1, AVC Decode |  |  |  | 功耗 |  |  |
| 显示输出 |  |  |  | 12V@4.78A (Intel® Core™ i7-4770EQ 2.4GHz CPU |  |
| 1 x VGA (高达 1920x1200@60Hz) |  |  |  | with 4 GB 1333 MHz DDR3 内存) |  |
| 1 x 18/24-bit 双通道 LVDS (高达 |  |  |  | 操作温度: -10°C ~ 60°C |  |  |
| 1920x1200@60Hz) |  |  |  | 存储温度: -20°C ~ 60°C |  |  |
| 2 x HDMI (高达 2500x1600@60Hz) |  | 工作湿度: 5% ~ 95%, 无冷凝 |  |
| TPM: 1 x TPM 接口 (2x10 pin) |  |  |  | 尺寸: 115 mm x 165 mm |  |
| SMBus: 1 x SMBus (1x4 pin) |  |  |  | 重量: GW: 850g / NW: 350g |  |
| 以太网 |  |  |  | CE/FCC compliant |  |  |
| LAN1: Intel® I217-LM PHY 支持 Intel® |  |  |  |  |  |  |  |
| AMT 9.0 |  |  |  |  |  |  |  |  |  |
| LAN2: Intel® I210-AT PCIe 控制器 |  |  |  |  |  |  |  |  |  |
| 外部 I/O 接口 |  |  |  |  |  |  |  |  |  |
| *包装清单* |  |  |  |  |  |  |  |  |  |
| 1 x NANO-QM871-i1 single board computer |  |  |



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| --- | --- | --- | --- | --- | --- | --- |
|  | 视频采集 |  | 1 x NANO-KBN/SE-i1 single board computer with heatspreader | 1 x Audio cable |  |  |
|  | 解决方案 |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 1 x Power cable |  | 1 x One Key Recovery CD |  |  |
|  |  |  | 2 x RS-232 cable |  | 1 x QIG |  |  |
|  |  |  | 2 x SATA with power cable kit | 1 x Utility CD |  |  |
|  |  |  |
|  |  | *订购信息* |  |  |  |  |
|  | 工业系统 |  | 料号 | 描述 |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | EPIC SBC supports AMD® 28nm quad core GX-424CC 2.4GHz (25W) |  |
|  |  |  | NANO-SE-i1-4241-R10 | on-board SoC with VGA/HDMI/LVDS, Dual PCIe GbE, USB 3.0, Dual |  |
|  |  |  | PCIe Mini, SATA 6Gb/s, mSATA , COM and Audio, iRIS-1010 and |  |
|  |  |  |  |  |
|  |  |  |  | RoHS |  |  |  |
|  |  |  |  | EPIC SBC supports AMD® 28nm quad-core GX-415GA 1.5GHz (15W) |  |
|  |  |  |  |  |
|  |  |  | NANO-KBN-i1-4151-R10 | on-board SoC with VGA/HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe |  |
|  |  |  |  | Mini, SATA 6Gb/s, mSATA, COM, iRIS-1010, HD Audio and RoHS |  |
|  |  |  |  | EPIC SBC supports AMD® 28nm dual-core GX-210HA 1.0GHz (9W) |  |
| 工业电脑机箱 |  |  |  |
|  | NANO-KBN-i1-2101-R10 | on-board SoC with VGA/HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe |  |
|  |  |  |  |
|  |  |  |  | Mini, SATA 6Gb/s, mSATA, COM, iRIS-1010, HD Audio and RoHS |  |
|  |  |  |  | EPIC SBC supports AMD® 28nm dual core GX-210KL 1.0GHz (4.5W) |  |
|  |  |  | NANO-GLX-2101-R10 | on-board SoC with VGA/HDMI/LVDS, Dual PCIe GbE, USB 3.0, Dual |  |
|  |  |  |  | PCIe Mini, SATA 6Gb/s, mSATA , COM and Audio and RoHS |  |
|  |  |  | iRIS-1010-R10 | IPMI 2.0 adapter card with AST1010 BMC chip (w/o KVM over |  |
|  |  |  | IP function) for PCIe Mini socket interface |  |
|  |  |  |  |  |
|  |  |  | 32000-023800-RS | PS/2 KB/MS cable, 135mm/110mm, P=2.0 |  |
|  | 电源/外设 |  |
|  |  | 32001-008600-200-RS | Dual-port USB cable, 210mm, P=2.0 |  |  |  |
|  |  |  |  |  |  |
|  |  |  | 32205-003800-300-RS | RS-422/485 cable, 200mm, P=2.0 |  |  |  |
|  |  |  | TPM-IN01-R20 | 20-pin Infineon TPM module, software management tool, |  |
|  |  |  |  |
|  |  |  | firmware v3.17 |  |  |  |
|  |  |  |  |  |  |  |

Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.

1 x Audio cable 1 x CPU cooler

1 x Power cable 1 x One Key Recovery CD

2 x RS-232 cable 1 x QIG

2 x SATA with power cable kit 1 x Utility CD

*订购信息*

|  |  |  |
| --- | --- | --- |
| 料号 | 描述 |  |
|  | EPIC SBC supports Intel® 22nm Mobile Core™ i7-4700EQ on-board |  |
| NANO-QM871-i1-i7-R10 Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, AMT 9.0, PCIe |  |
|  | Mini, USB 3.0, SATA 6Gb/s, iRIS-1010, Audio and RoHS |  |
|  | EPIC SBC supports Intel® 22nm Mobile Core™ i5-4400E on-board |  |
| NANO-QM871-i1-i5-R10 Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, AMT 9.0, PCIe |  |
|  | Mini, USB 3.0, SATA 6Gb/s, iRIS-1010, Audio and RoHS |  |
|  | EPIC SBC supports Intel® 22nm Mobile Core™ i3-4100E on-board |  |
| NANO-QM871-i1-i3-R10 Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe |  |
|  | Mini, SATA 6Gb/s, iRIS-1010, Audio and RoHS |  |
|  | EPIC SBC supports Intel® 22nm Celeron 2000E on-board Processor |  |
| NANO-QM871-i1-C-R10 (37W) with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe |  |
|  | Mini, SATA 6Gb/s, iRIS-1010, Audio and RoHS |  |
| iRIS-1010-R10 | IPMI 2.0 adapter card with AST1010 BMC chip (W/O KVM over |  |
| IP function) for PCIe Mini socket interface |  |
|  |  |
| 32000-023800-RS | PS/2 KB/MS cable, 135mm/110mm, P=2.0 |  |
| 32001-008600-200-RS | Dual-port USB 2.0 cable, 210mm. P=2.0 |  |
| 32205-003800-300-RS | RS-422/485 cable, 200mm, P=2.0 |  |
| TPM-IN01-R20 | 20-pin Infineon TPM module, software management tool, |  |
| firmware v3.17 |  |
|  |  |

Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.

1-109 NANO-SE-i1/NANO-KBN-i1-2018-V10