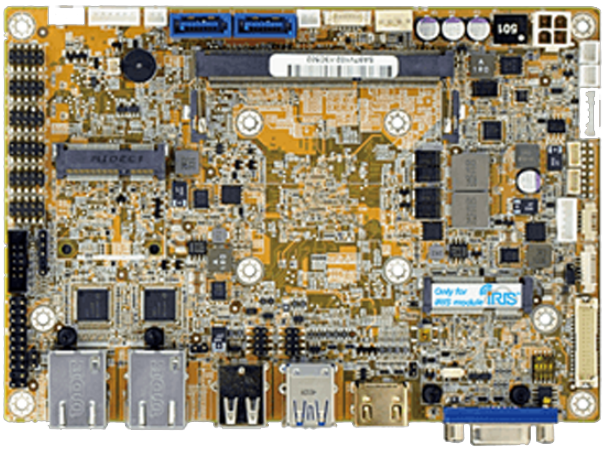
NANO-KBN-i1

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