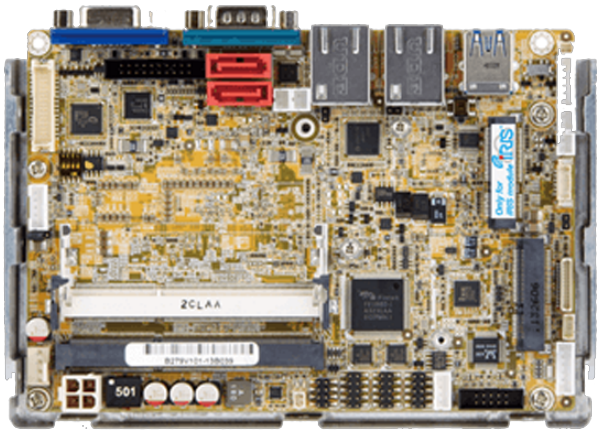
WAFER-KBN-i1

3.5” SBC supports AMD® Embedded G-Series SoC



Features

» 3.5” form fator with AMD® Embedded G-Series SoC

» 12V only single voltage design with AT/ATX mode

» 18/24-bit dual-channel LVDS for high resolution panel

» Dual independent display by VGA, LVDS and iDP

» Support IPMI 2.0 with iRIS-1010 module

» Support full-size PCIe Mini card slot for mSATA, wireless card and DOM

» IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

System	
CPU	AMD® Embedded G-Series SoC
	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)
	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)
Memory	One 204-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM SO-DIMM
Memory Max.	8GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	146 X 102
Net Weight	250
Storage	
Storage	2 x SATA :3Gb/s
I/O Interface	
Display Output	1 x VGA :up to 2048x1536@60Hz
	1 x LVDS :18-bit singel-channel (up to 1920x1200@60Hz)
	1 x iDP :for HDMI™, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)
Ethernet	2 x LAN :1 x Intel® I210-AT PCIe controller with NCSI support,1 x Intel® I211-AT PCIe controller
Audio	1 x Description: Realtek AL892 HD Audio codec
	1 x S/PDIF :1x4 pin
	1 x Front Audio :2x5 pin
I/O Interface	2 x Internal RS-232 :2x5 pin, P=2.0
	1 x Internal RS-422/485 :1x4 pin, P=2.0
	4 x Internal USB 2.0 :2x4 pin, P=2.0
	1 x PS/2 :1x6 pin
Expansion	1 x PCIe mini Card Slot :Support mSATA co-layout SATA port 2
Other Features	
iRIS	1 X iRIS-1010 slot
Power	

Power Consumption	+12V@2.12A (AMD GX-415GA 1.5GHz CPU with one 4GB 1333 MHz DDR3 memory)
Power Supply	12 V only DC input,1 x internal power connector(2 x 2 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

WAFER-KBN-i1-4151-R11	3.5" SBC supports AMD® 28nm Quad-Core GX-415GA 1.5GHz (15W) on-board SoC with VGA/LVDS, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6GB/s, Audio,iRIS-1010 and RoHS
WAFER-KBN-i1-2101-R11	3.5" SBC supports AMD® 28nm Dual-Core GX-210HA 1.0GHz (9W) on-board SoC with VGA/LVDS, Dual GbE, Dual PCIe Mini, USB 3.0, SATA 6GB/s, Audio,iRIS-1010 and RoHS

Packing List

1 x WAFER-KBN-210H single board computer with Enclosure Heatsink	1 x Audio cable
1 x Power cable	1 x RS-232 cable
1 x QIG	2 x SATA with 5V output cable kit