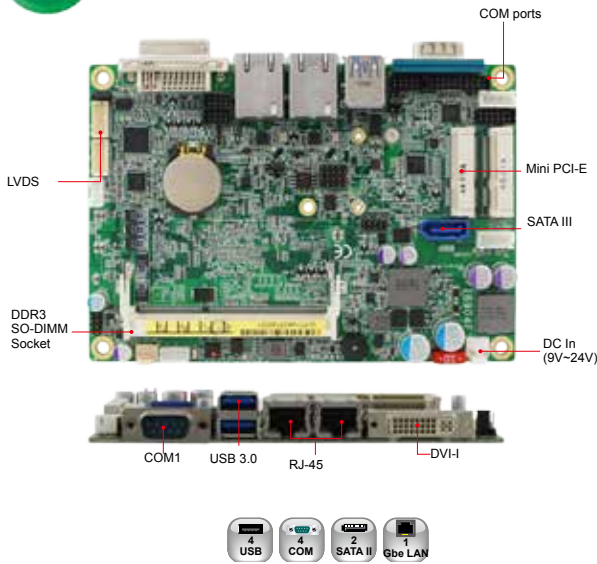


## IB904

## AMD Embedded G-series SoC 3.5-inch Disk Size SBC



## System

CPU type	IB904F-Q2G:	AMD Embedded G-series GX-420CA SoC (2.0GHz, 2MB cache)
	IB904F-Q15:	AMD Embedded G-series GX-415GA SoC (1.5GHz, 2MB cache)
	IB904F-16:	AMD Embedded G-series GX-217GA SoC (1.65GHz, 1MB cache)
System Memory	1x DDR3/ DDR3L SO-DIMM, Max. 8GB (Non-ECC)	
System Chipset	Integrated in APU	
BIOS	AMI	
Watchdog Timer	256 levels	
SSD	1x mSATA (Thru Mini PCI-E)	
H/W Monitor	Yes	
Expansion Slot	2x Mini PCI-E	

## Graphics

VGA Controller	AMD Embedded G-series SoC built-in GPU (AMD Radeon™ HD8000 series)	
VGA Memory	Shared memory	
LCD Interface	Supports DVI-I and 24-bit dual channel LVDS	

## LAN

Controller	2x Realtek RTL8111G-CG PCI-E Gigabit LAN	
Connector	2x RJ-45 on board	

## Multi I/O

Chipset	Fintek F81846AD-I
	1x RS232/422/485 (Jumperless selection), 3x RS232, 2x SATAIII
USB	2 ports USB 3.0 onboard
	4 ports USB 2.0 via pin header
Audio	AMD Embedded G-series SoC built-in audio controller w/ Realtek ALC269Q-VC2-GR HD codec w/class-D speaker amplifier
Others	Digital I/O, +9V~+24V DC In, iSMART

## Features

- Onboard AMD Embedded G-series SoC
- 1x DDR3/ DDR3L SO-DIMM, Max. 8GB
- Supports DVI-I and 24-bit dual channel LVDS
- 2x Realtek RTL8111G-CG PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, mSATA, iSMART
- 2x USB3.0, 4x USB 2.0, 4x COM, 2x SATA III



## Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	AMD GX-420CA SoC with Radeon™ HD Graphics 2.00GHz w/Unigen 2GB DDR3-1333 +12V: 2.91A
Operating Temperature	-40°C~75°C (-40°F~167°F)
Storage Temperature	-40°C~80°C (-40°F~176°F)
Relative Humidity	90% (non-condensing @60°C)

## Ordering Information

IB904F-Q2G	AMD Embedded G-series GX-420CA SoC (2.0GHz) 3.5-inch Disk Size SBC w/ DVI-I & LVDS (24-bit dual channel), dual PCI-E Gigabit LAN, mSATA, iSMART
IB904F-Q15	AMD Embedded G-series GX-415GA SoC (1.5GHz) 3.5-inch Disk Size SBC w/ DVI-I & LVDS (24-bit dual channel), dual PCI-E Gigabit LAN, mSATA, iSMART
IB904F-16	AMD Embedded G-series GX-217GA SoC (1.65GHz) 3.5-inch Disk Size SBC w/ DVI-I & LVDS (24-bit dual channel), dual PCI-E Gigabit LAN, mSATA, iSMART
IB68A	Cable kit for IB903F series, w/ SATA + power cable, COM, USB, power cable
HSIB904-BGA	Heatsink w/ fan for IB904F series
HSIB904-BGA-1	Heat spreader for IB904F series

## Dimensions and Drawing

