

## Features

- Onboard 5th Generation Intel® Core™ U-series processor
- 2x DDR3L-1600 SO-DIMM, Max 16GB
- Supports DVI-I and 24bit dual channel LVDS
- 2x Intel® PCI-E GbE LAN
- Watchdog timer, Digital I/O, mSATA, iSMART
- 2x USB 3.0, 2x USB 2.0, 2x COM, 2x SATA III
- 2x Mini PCI-E slot, mSATA

## System

CPU	Intel® Core™ i7-5650U processor (2.2GHz) Intel® Core™ i5-5350U processor (1.8GHz) Intel® Core™ i3-5010U processor (2.1GHz)
System Memory	2x DDR3L-1600 SO-DIMM, Max 16GB (Non-ECC)
System Chipset	Integrated in Intel® 5th Generation Core™ i U-series processor
BIOS	AMI BIOS
Watchdog Timer	256 levels
SSD	2x mSATA
H/W Monitor	Yes
Expansion Slots	2x Mini PCI-E (1x full-sized, 1x half-sized)

## Graphics

VGA Controller	5th Generation Intel® Core™ i U-series processor integrated Gfx
VGA Memory	Shared memory
Display Interface	Support DVI-I and 24-bit dual channel LVDS

## LAN

Controller	IB909AF: Intel® I218LM LAN PHY IB909F: Intel® I218V LAN PHY Intel® I211AT PCI-E Gigabit LAN(as 2 <sup>nd</sup> LAN)
Connector	2x RJ-45 on board

## Multi I/O

I/O Chipset	Nuvoton NCT6102D 1x RS-232/422/485(Jumperless selection), 1x RS232, 2x SATA III
USB	2 ports USB3.0 on board 2 ports USB2.0 on via pin header
Audio	Intel® 5th Generation Core™ i U-series processor built-in HD audio controller + Realtek ALC269Q-VC3 w/class-D speaker amplifier
Others	Digital I/O, +9V~ +24V DC-in, iSMART

## Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	Intel® Core™ i5-5350U 1.80GHz w/ 8GB DDR3L-1600 +12V: 3.84A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	90% (non-condensing @60°C)

## Ordering Information

IB909AF-5650	Intel® Core™ i7-5650U(2.2GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, DVI-I & LVDS(24-bit LVDS dual channel), mSATA, iSMART, iAMT(10.0)
IB909AF-5350	Intel® Core™ i5-5350U(1.8GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, DVI-I & LVDS(24-bit LVDS dual channel), mSATA, iSMART, iAMT(10.0)
IB909F-5010	Intel® Core™ i3-5010U(2.1GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, DVI-I & LVDS(24-bit LVDS dual channel), mSATA, iSMART
HSIB908-BGA	Heatsink for IB909/IB908
HSIB908BGA-2	Heat spreader for IB909/IB908
IB75	Cable kit IB909/IB908 series ,w/ SATA+power cable, USB, COM, power cable

## IB909

5th Generation Intel® Core™ U-series Processor  
3.5-inch Disk Size SBC

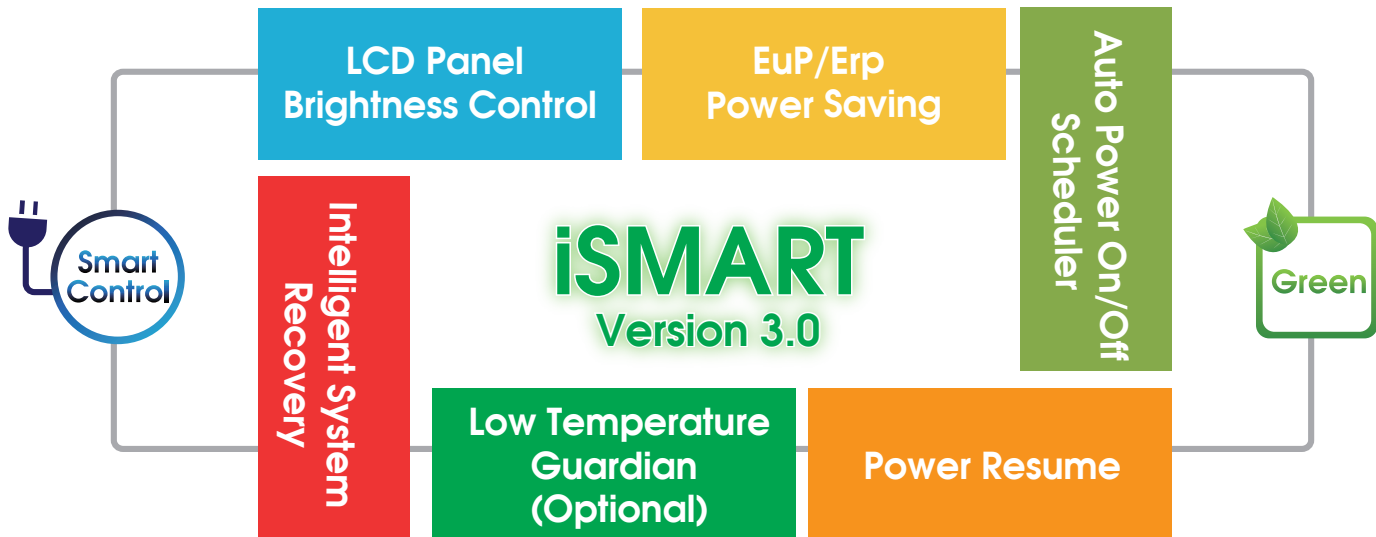
## IB909 with heat spreader



## IB909 with heatsink



## iSMART Technology



## Dimensions and Drawing

