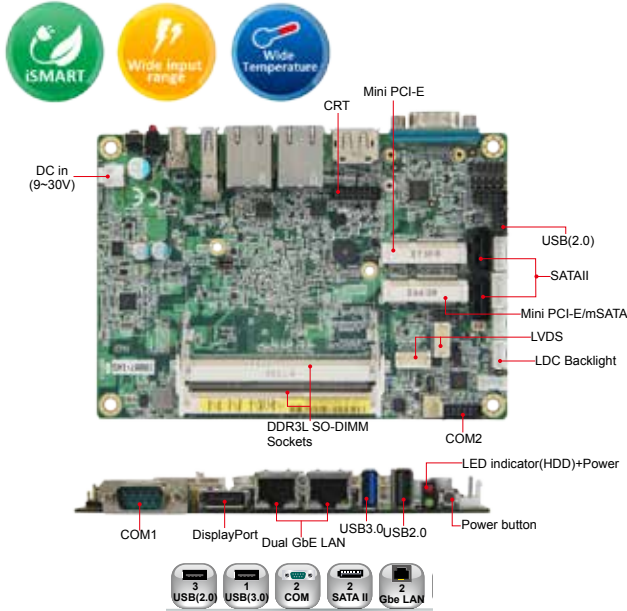


# IB897

## Intel® Atom™ E3845/E3827 SoC 3.5-inch Disk Size SBC



### Features

- Onboard Intel® Atom™ E3845/E3827/E3815 SoC, 1.91GHz/1.75GHz/1.46GHz
- 2x DDR3L-1333 SO-DIMM, Max. 8GB
- Supports VGA, DisplayPort and 24 bit dual channel LVDS
- 2x Intel® I210IT PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, mSATA, iSMART
- 3x USB2.0, 1x USB3.0, 2x COM, 2x SATA II, 1x Micro SD slot
- 2x Mini PCI-E slots (1x Full-size, 1x Half size)
- Wide temperature support



\*\* P version is pin-header type for PWR and LED indicators\*\*

### System

CPU	Intel® Atom™ QC E3845 (1.91GHz, 2MB cache) Intel® Atom™ DC E3827 (1.75GHz, 1MB cache) 2nd Atom™ SC E3815 (1.46GHz, 512k cache)
System Memory	2x DDR3L-1333 SO-DIMM, Max 8GB (Non-ECC) 1x DDR3L-1333 SO-DIMM, (IB897-215 only)
System Chipset	Integrated in Intel® Atom™ SoC
BIOS	AMI BIOS
Watchdog Timer	256 levels
SSD	1x mSATA, 1x Micro SD
H/W Monitor	Yes
Expansion Slots	2x Mini PCI-E (1x full-size, 1x half-size)

### Graphics

VGA Controller	Intel® Atom™ SoC integrated Gen7 4EUs graphics
VGA Memory	Shared memory
Display Interface	Supports CRT, DisplayPort, and 24-bit dual channel LVDS

### LAN

Controller	2x Intel® I210IT PCI-E Gigabit LAN
Connector	2x RJ-45 on board

### Multi I/O

I/O Chipset	Nuvoton NCT5523D 1x RS-232/422/485 (jumperless selection) 1x RS232, 2x SATA II
USB	1 port USB3.0 on board 1 port USB2.0 on board 2 ports USB2.0 via pin header
Audio	Intel® Atom™ SoC built-in HD Audio controller + Realtek ALC269Q HD codec w/ class-D speaker amplifier
Others	Digital I/O, +9V~ +30V DC-In, iSMART, Wide temperature support

### Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	Intel® Atom™ E3827 @ 1.75GHz w/ 2x Transcend 2GB DDR3L-1600 +12V: 1.29A Intel® Atom™ E3845 @ 1.91GHz w/ 2x Transcend 2GB DDR3L-1600 +12V: 1.57A
Operating Temperature	-40°C~85°C (-40°F~185°F)
Storage Temperature	-40°C~90°C (-40°F~194°F)
Relative Humidity	90% (non-condensing @60°C)

### Ordering Information

IB897-I45	Intel® Atom™ E3845(1.91GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS (24-bit LVDS dual channel), mSATA, iSMART, Wide Temp. support
IB897-I27	Intel® Atom™ E3827(1.75GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS (24-bit LVDS dual channel), mSATA, iSMART, Wide Temp. support
IB897-I15	Intel® Atom™ E3815(1.46GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS (24-bit LVDS dual channel), mSATA, iSMART, Wide Temp. support
IB897-I45P	Intel® Atom™ E3845(1.91GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS (24-bit LVDS dual channel), mSATA, iSMART, Wide Temp. support, pin-header type for power button and LED
IB897-I27P	Intel® Atom™ E3827(1.75GHz) 3.5-inch Disk Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS (24-bit LVDS dual channel), mSATA, iSMART, Wide Temp. support, pin-header type for power button and LED
HSIB897-BGA	Heatsink for IB897
HSIB897-BGA-1	Heat spreader for IB897
IB76	Cable kit for IB897, w/ USB, COM, power, SATA + power, VGA

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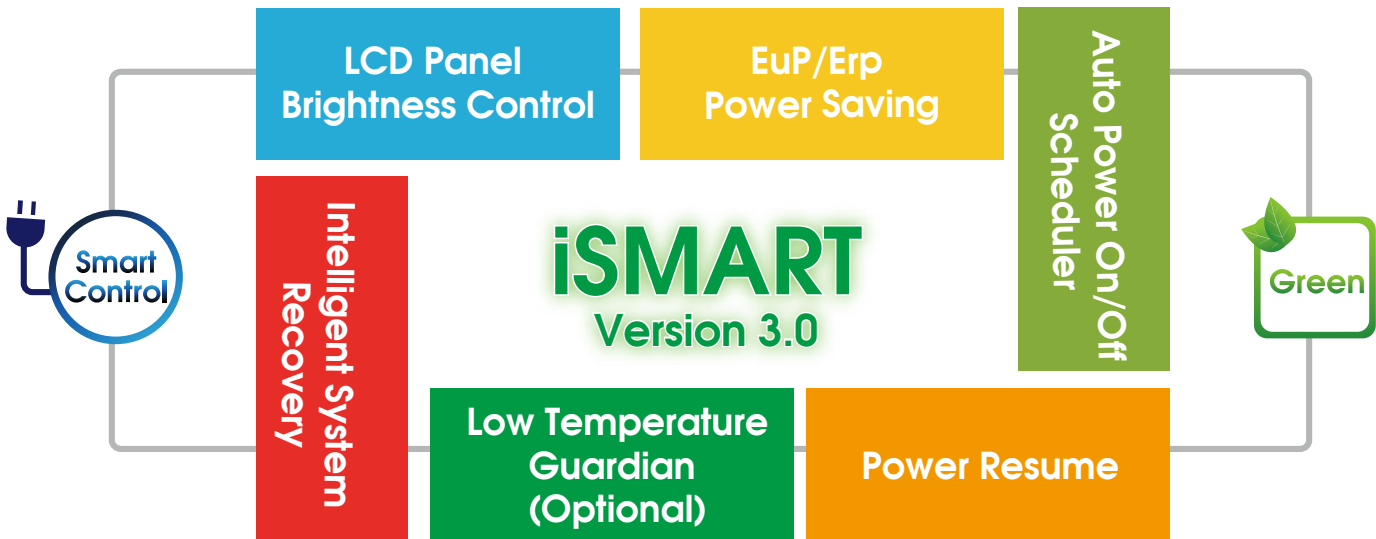
## IB897 with Heat spreader



## IB897 with Heatsink



## iSMART Technology



## Dimensions and Drawing

