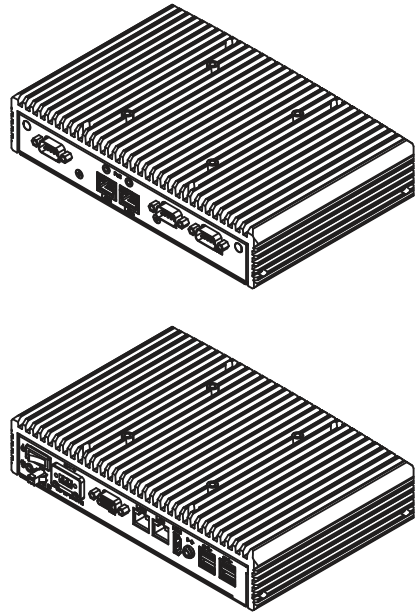


# BS-E097

## Quick Reference Guide



Ver. Q2

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## Packing Checklist

If you discover any item below damaged or lost, please contact your vendor.

- BS-E097 x1
- This Quick Reference Guide x1
- Driver/ Manual DVD x1
- 3-Pin Terminal Block x1

## Specifications

### System

CPU Type	Intel® Celeron® J3455: 10w, 4C, 2.3GHz Intel® Celeron® N3350: 6w, 2C, 2.4GHz Intel® Atom® x5-E3940: 10w, 4C, 1.8GHz
Memory Support	1 x SO-DIMM socket, supporting 1600/1866 DDR3L DRAM up to 8G (non-ECC)
API	Hardware monitor / WatchDog
Storage Support	1 x 2.5" 7mm SATAIII HDD / SSD drive space
Power Supply	Supports DC 12V and 16~24V power input (3-pin lockable terminal block )
Power Adaptor	60W adapter w/ lockable 3-pin terminal block (optional)
Operating System	Windows 10 64bit / Ubuntu 17.04 64bit (kernel: 4.4)
Expansion Slots	1 x full-sized mPCIe slot (with PCIe and USB signals) 1 x full-sized mSATA slot (with SATA and USB signals)
Dimensions / Weight	217.5mm x 46.6mm x 140.6mm (WxHxD) / 2kg
Certificate	FCC/CE

### I/O Ports (Front side)

USB	Normal SKU: 2 x USB 2.0 / PoE SKU: N/A
Serial Ports	COM1: RS-232 COM2: RS-232/422/485 selectable by BIOS(Default: RS-232) COM3&4: RS-232 w/ RI/5V/12V selectable by jumper (Default: RI) Normal SKU: COM1~3 & COM4 or DIO (Default: COM4) PoE SKU: COM2~3 & COM1 or DIO (Default: COM1)
Antenna Holes	Normal SKU: 4 x antenna holes for reservation PoE SKU: 2 x antenna holes for reservation
LAN	Normal SKU: N/A / PoE SKU: 2 x PoE LAN or 2 x GbE LAN

### I/O Ports (Rear side)

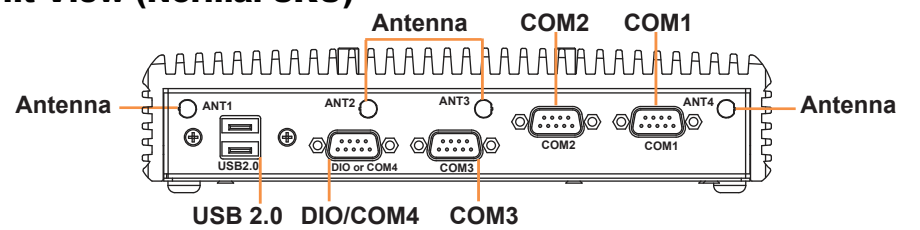
Display	1 x HDMI1.4a, resolution: up to 4096x2160 @60Hz 1 x VGA, resolution: up to 1920x1200@60Hz
USB / Sound	4 x USB 3.0 / Line Out
LAN	2 x GbE LAN (support Wake-on-LAN) / LAN1 & 2: Intel® I210AT
Power On / Off	1 x Power Button & 1 x Extended Power Switch
LED	1 x Power LED

### Environment

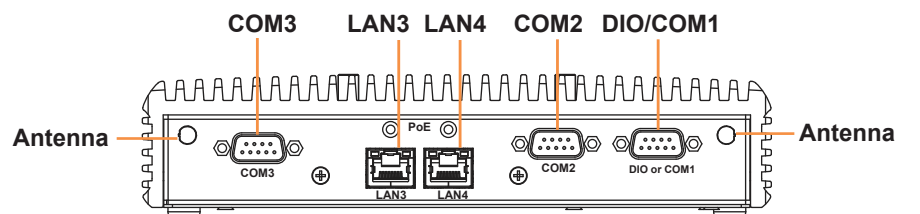
Operating Temp.	SSD: 0°C~60°C (32°F~140°F) HDD: 0°C~40°C (32°F~104°F)
Storage Temp.	-40°C ~85°C (-40°F~185°F)
Humidity	20% ~ 90%

## System View

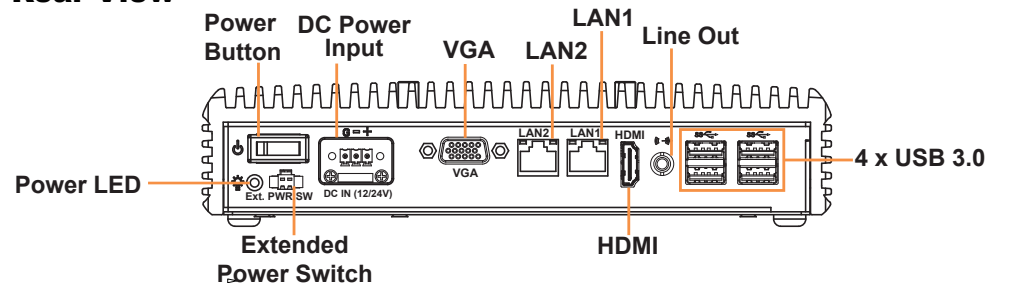
### Front View (Normal SKU)



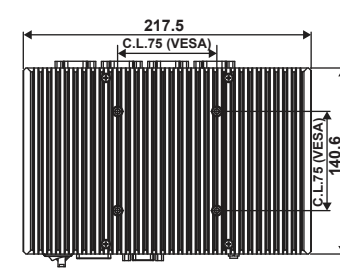
### Front View (PoE SKU)



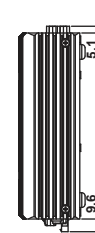
### Rear View



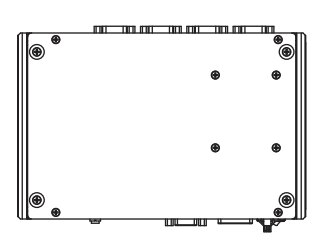
### Top View



### Side View



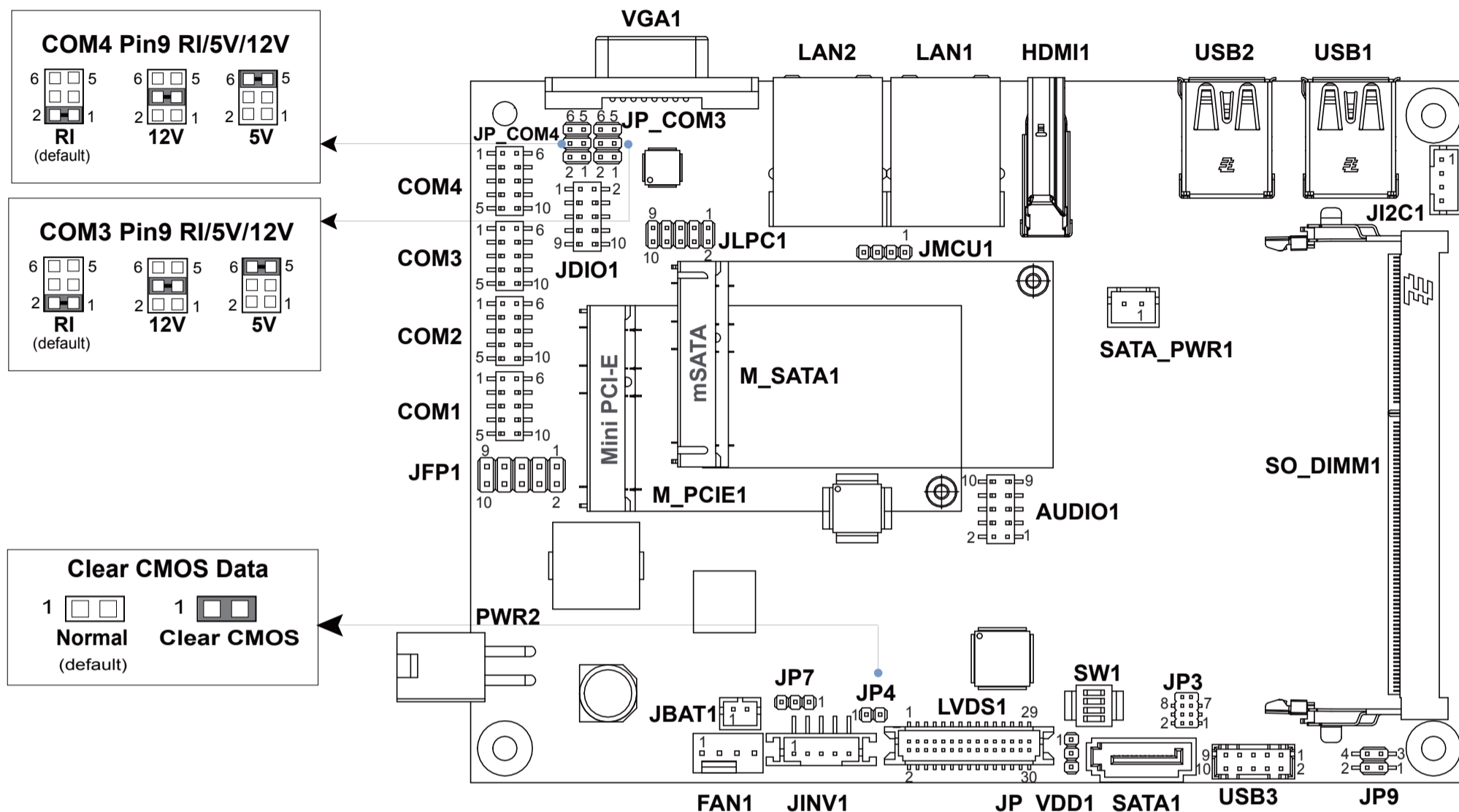
### Bottom View



# BS-E097

Fanless Embedded PC with Intel® Atom™ E3900 / J3455 / N3350 SoC / 12V / 16~24V

## Jumper Setting



**CAUTION!** Danger of explosion may occur if the battery is replaced incorrectly. Replace batteries only with the same or equivalent type recommended by the manufacturer. Dispose the used batteries according to the manufacturer's instructions.

## Safety Precaution

The following messages are safety reminders on how to protect your system from damages, and thus help you extend the life cycle of the system.

### 1. Check the Line Voltage

- The operating voltage for the power supply should be 12V or 16V~24V DC; otherwise, the system may be damaged.

### 2. Environmental Conditions

- Place your BS-E097 on a sturdy, level surface. Be sure to allow enough room on each side to have easy access.
- Avoid moving the system rapidly from a hot place to a cold place or vice versa because condensation may come from inside of the system.
- Place BS-E097 against strong vibrations, which may cause hard disk failure.

### 3. Handling

- Do not turn the system upside down. This may cause the hard drive to mal-function.

- Do not allow foreign objects to fall into this product.
  - If water or other liquid spills into this product, unplug the power cord immediately.
- ### 4. Good Care
- When the outside of the case is stained, remove the stain with neutral washing agent with a dry cloth.
  - If dust has been accumulated on the outside, remove it by using a special made vacuum cleaner for computer.

### CAUTION!

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

### WARNING!

Some internal parts of the system may have high electrical voltage. Therefore we strongly recommend qualified engineers open and disassemble the system.