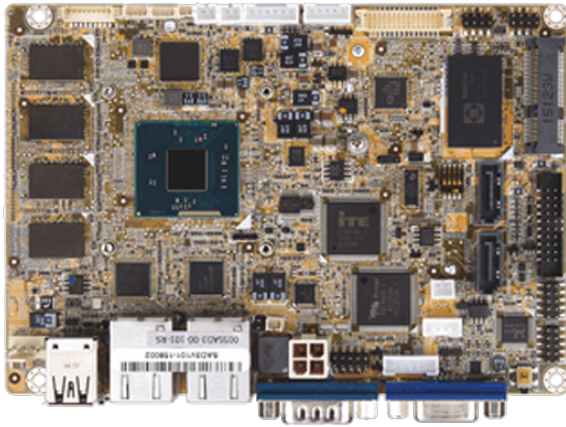


# WAFER-BT-E38001W2

3.5" SBC with Intel® 22nm Atom™ SoC



## Features

- » 3.5" SBC supports Intel® 22nm Atom™ on-board SoC
- » Dual independent display support
- » On-board 2 GB/4 GB 1066/1333 MHz DDR3L memory
- » COM, USB 3.0, SATA 3Gb/s, PCIe Mini, mSATA and Audio support
- » Supports -40°C ~ 85°C
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

| System                   |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| CPU                      | Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)        |
|                          | Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)         |
|                          | Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)         |
|                          | Intel® Atom™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)         |
|                          | Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)     |
| Memory                   | 4 GB solder-down 1066/1333 MHz DDR3L memory (for E3845)                         |
|                          | 2 GB solder-down 1066/1333 MHz DDR3L memory (for E3825)                         |
| Physical Characteristics |                                                                                 |
| Dimensions (LxWxH) (mm)  | 146 X 102                                                                       |
| Net Weight               | 250                                                                             |
| Storage                  |                                                                                 |
| Storage                  | 2 x SATA 3Gb/s(no RAID)                                                         |
|                          | 1 x mSATA :colay SATA port2                                                     |
|                          | 1 x SD/MicroSD card :MicroSD slot                                               |
|                          | 1 x On-Board SSD :4GB colay SATA port 1(optional)                               |
| I/O Interface            |                                                                                 |
| Display Output           | 1 x VGA :up to 2560x1600@60Hz                                                   |
|                          | 1 x LVDS :18/24-bit dual-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-IT PCIe controller, 1 x Intel® I210-IT PCIe controller |
| Audio                    | Description: Realtek ALC662 HD Audio codec                                      |
|                          | 1 x Front Audio :2x5 pin                                                        |
| I/O Interface            | 1 x External RS-232                                                             |
|                          | 1 x Internal RS-232 :2x5 pin, P=2.0                                             |
|                          | 1 x Internal RS-422/485 :1x4 pin, P=2.0                                         |
|                          | 1 x External USB 2.0                                                            |
|                          | 1 x External USB 3.2 Gen1x1                                                     |
|                          | 4 x Internal USB 2.0 :2x4 pin, P=2.0                                            |

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
|                       | 1 x PS/2 :1x6 pin                                                                 |
| Expansion             | 2 x PCIe mini Card Slot                                                           |
| <b>Power</b>          |                                                                                   |
| Power Consumption     | 12V@1.32A (Intel® Atom™ processor E3845 with on-board 2 GB 1333 MHz DDR3L memory) |
| Power Supply          | 12 V only DC input, 1 x internal power connector(2 x 2 pin),support AT/ATX mode   |
| <b>Environment</b>    |                                                                                   |
| Operating Temperature | -40°C ~ 85°C                                                                      |
| Storage Temperature   | -40°C ~ 85°C                                                                      |
| Humidity              | 5% ~ 95%, non-condensing                                                          |
| <b>Certifications</b> |                                                                                   |
| Safety & EMC          | CE/FCC compliant                                                                  |

## Ordering Information

|                       |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WAFER-BT-E38451W2-R10 | 3.5" SBC with Intel 22nm Atom quad-core E3845 1.91GHz (10W) on-board SoC support -40°C ~ 85°C, 4GB DDR3 memory on board, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS  |
| WAFER-BT-E38271W2-R10 | 3.5" SBC with Intel 22nm Atom dual-core E3827 1.75GHz (8W) on-board SoC support -40°C ~ 85°C, 2GB DDR3 memory on board, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS   |
| WAFER-BT-E38261W2-R10 | 3.5" SBC with Intel 22nm Atom dual-core E3826 1.46GHz (7W) on-board SoC support -40°C ~ 85°C, 2GB DDR3 memory on board, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS   |
| WAFER-BT-E38251W2-R10 | 3.5" SBC with Intel 22nm Atom dual-core E3825 1.33GHz (6W) on-board SoC support -40°C ~ 85°C, 2GB DDR3 memory on board, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS   |
| WAFER-BT-E38151W2-R10 | 3.5" SBC with Intel 22nm Atom single-core E3815 1.46GHz (5W) on-board SoC support -40°C ~ 85°C, 2GB DDR3 memory on board, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS |

## Packing List

|                                    |                                    |
|------------------------------------|------------------------------------|
| 1 x WAFER-BT single board computer | 1 x QIG (Quick Installation Guide) |
| 1 x Power cable                    |                                    |