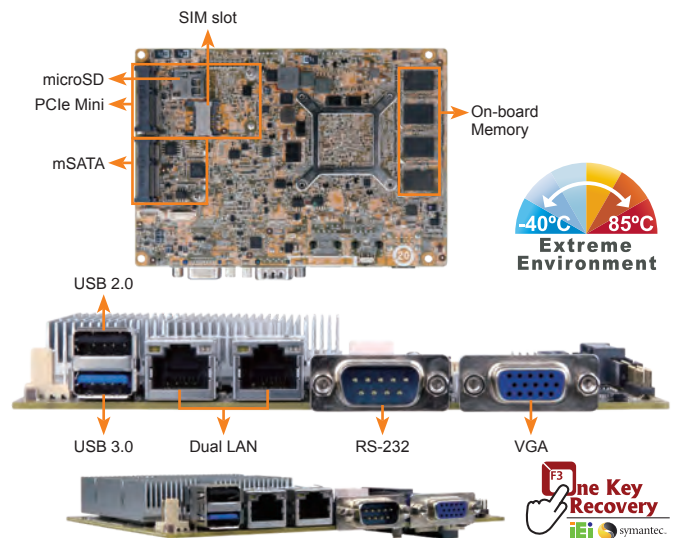
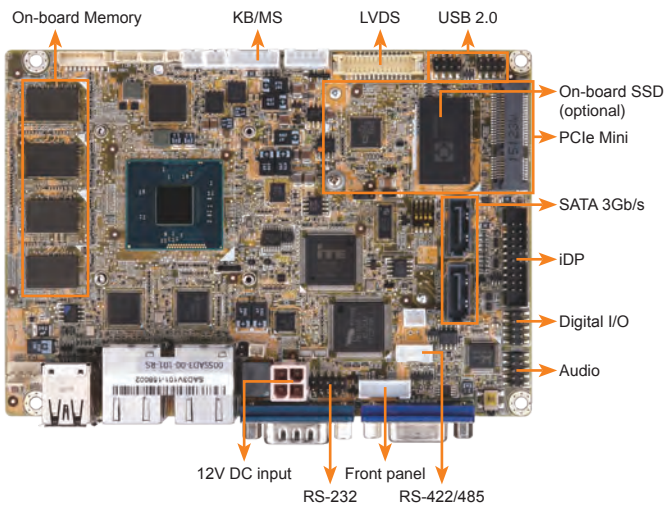


# WAFER-BT-E38001W2

3.5" SBC with Intel® 22nm Atom™ SoC, -40°C ~ 85°C, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS



## Specifications

- ◆ SoC
  - 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)
- ◆ BIOS
  - UEFI BIOS
- ◆ Memory
  - 4 GB solder-down 1066/1333 MHz DDR3L memory (for E3845)
  - 2 GB solder-down 1066/1333 MHz DDR3L memory (for E3825)
- ◆ Graphics
  - Intel® HD Graphics Gen 7 Engine with 4 execution units, supporting DX11.1, OpenGL 4.2 and OpenCL1.2
- ◆ Display Output
  - Dual independent display
  - 1 x VGA (up to 2560x1600@60Hz)
  - 1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
  - 1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)
- ◆ Ethernet
  - LAN1: Intel® I210-IT PCIe controller
  - LAN2: Intel® I210-IT PCIe controller
- ◆ External I/O Interface
  - 1 x RS-232
  - 1 x USB 2.0
  - 1 x USB 3.0
- ◆ Internal I/O Interface
  - 1 x PS/2 KB/MS (1x6 pin)
  - 1 x RS-232 (2x5 pin, P=2.0)
  - 4 x USB 2.0 (2x4 pin, P=2.0)
  - 1 x RS-422/485 (1x4 pin, P=2.0)
  - 2 x SATA 3Gb/s with 5V SATA power connector (no RAID)
- ◆ Expansion
  - 2 x Full-size PCIe Mini slot
- ◆ Audio
  - Realtek ALC662 HD Audio codec
  - 1 x Front audio (2x5 pin)
- ◆ Storage
  - On-board SSD 4 GB colay SATA port 1 (optional)
  - 1 x mSATA colay SATA port 2
  - 1 x microSD socket
- ◆ Front Panel
  - 1 x Power LED & HDD LED (1x6 pin)
  - 1 x Power button (1x2 pin)
  - 1 x Reset button (1x2 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I<sup>2</sup>C: 1 x I<sup>2</sup>C (1x4 pin)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector
  - 1 x Smart fan connector (1x4 pin)
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
  - 12V only DC input
  - 1 x Internal power connector (2x2 pin)
  - Support AT/ATX mode
- ◆ Power Consumption
  - 12V@1.32A (Intel® Atom™ processor E3845 with on-board 2 GB 1333 MHz DDR3L memory)
- ◆ Operating Temperature: -40°C ~ 85°C
- ◆ Storage Temperature: -40°C ~ 85°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 146mm x 102mm
- ◆ Weight: GW: 600g / NW: 250g
- ◆ CE/FCC compliant

## 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

## Packing List

|                                    |                         |
|------------------------------------|-------------------------|
| 1 x WAFER-BT single board computer | 1 x QIG                 |
| 1 x Power cable                    | 1 x Utility CD          |
| 1 x SATA with power cable kit      | 1 x One Key Recovery CD |

## Ordering Information

| Part No.                | Description                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WAFER-BT-E38451W2-R10   | 3.5" SBC with Intel® 22nm Atom™ quad-core E3845 1.91GHz (10W) on-board SoC supports -40°C ~ 85°C, 4 GB 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 supports -40°C ~ 85°C, 2 GB 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 supports -40°C ~ 85°C, 2 GB 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 supports -40°C ~ 85°C, 2 GB 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 supports -40°C ~ 85°C, 2 GB DDR3 memory on board, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS |
| 19800-000300-100-RS     | RS-232 cable with bracket, 300mm, P=2.0                                                                                                                                                                               |
| 32000-023800-RS         | PS/2 KB/MS cable, 135mm/110mm, P=2.0                                                                                                                                                                                  |
| 32001-008600-200-RS     | Dual-port USB cable, 210mm, P=2.0                                                                                                                                                                                     |
| 32007-005200-200-RS     | Audio cable, 300mm, P=2.0                                                                                                                                                                                             |
| 32205-003800-300-RS     | RS-422/485 cable, 200mm, P=2.0                                                                                                                                                                                        |
| DP-DP-R10               | DisplayPort to DisplayPort converter board (for IEI iDP connector)                                                                                                                                                    |
| DP-DVI-R10              | DisplayPort to DVI-D converter board (for IEI iDP connector)                                                                                                                                                          |
| DP-HDMI-R10             | DisplayPort to HDMI converter board (for IEI iDP connector)                                                                                                                                                           |
| DP-LVDS-R10             | DisplayPort to LVDS converter board (for IEI iDP connector)                                                                                                                                                           |
| DP-VGA-R10              | DisplayPort to VGA converter board (for IEI iDP connector)                                                                                                                                                            |

\*\*By order production, MOQ: 100