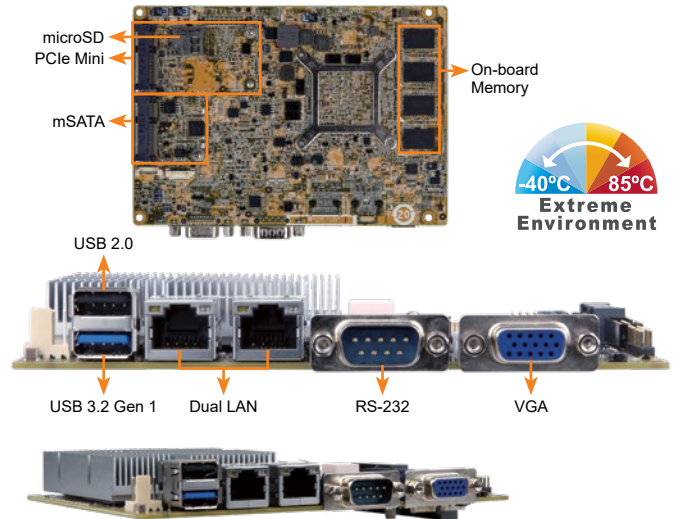
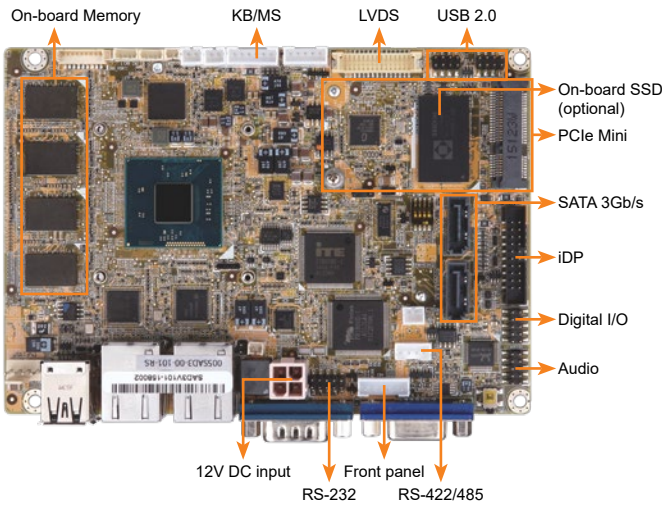


# WAFER-BT-E38001W2

3.5" SBC with Intel® 22nm Atom™ SoC, -40°C ~ 85°C, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.2 Gen 1 (5Gb/s), 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)  
BIOS  
UEFI BIOS  
Memory
- ◆ 4 GB solder-down 1066/1333 MHz DDR3L memory (for E3845)  
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 3.2 Gen 1 (5Gb/s)  
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 3.2 Gen 1 (5Gb/s), SATA 3Gb/s, PCIe Mini, mSATA and Audio support
- Supports -40°C ~ 85°C

## Packing List

1 x WAFER-BT single board computer	1 x SATA with power cable kit
1 x Power cable	1 x QIG

## Ordering Information

Part No.	Description
WAFER-BT-E38451W2-R12	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 3.2 Gen 1 (5Gb/s), PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS
19800-000300-100-RS	RS-232 cable with bracket, 300mm, P=2.0
32001-008600-200-RS	Dual-port USB cable, 210mm, P=2.0
32006-001100-201-RS	PS/2 KB/MS cable, 135mm/110mm, 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 I/EI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for I/EI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for I/EI iDP connector)
DP-LVDS-R10	DisplayPort to LVDS converter board (for I/EI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for I/EI iDP connector)