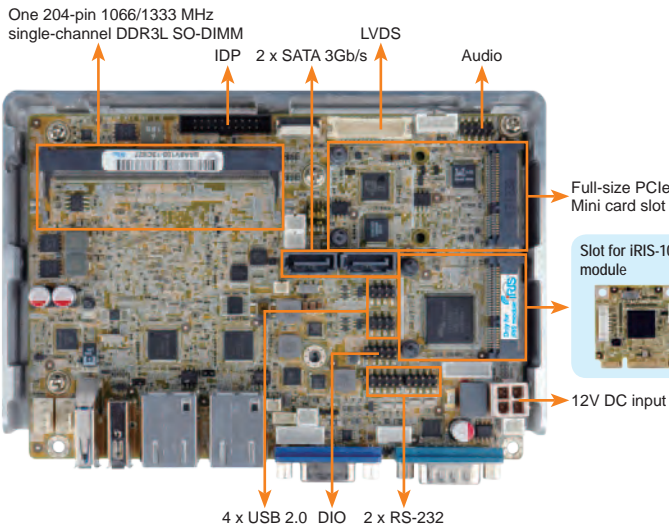
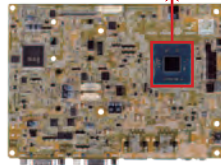


# WAFER-BTi

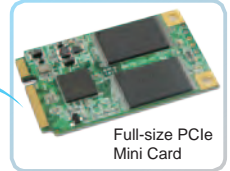
3.5" SBC with Intel® 22nm Atom™/Celeron® on-board SoC, VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 3Gb/s, mSATA, COM, Audio and RoHS



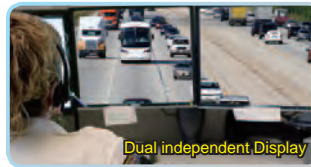
Intel® Atom™ Bay Trail SoC processor on solder side



1 x Full-size PCIe Mini slot, 2 x SATA connectors for storage, Wi-Fi expansion

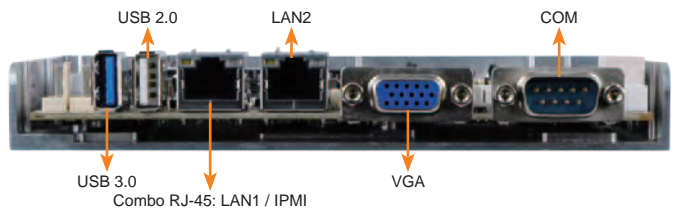


Dual independent display (max. support 1920x1200@60Hz)



## 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)
  - Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)
  - Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.3W)
- ◆ BIOS
  - AMI UEFI BIOS
- ◆ Memory
  - One 204-pin 1066/1333 single-channel DDR3L SO-DIMM supported (system max. 8GB)
- ◆ Graphics Engine
  - Intel® HD Graphics Gen 7 Engines with 4 execution unit, supports DX11.1, OpenGL 4.2 and OpenCL 1.2
- ◆ Display Output
  - Dual Independent Display
  - 1 x VGA (Resolution: 1600x1200@60Hz)
  - 1 x 24-bit dual-channel LVDS connector (1920x1200@60Hz)
  - 1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60 Hz)
- ◆ Ethernet
  - LAN1: Intel® I210-AT PCIe controller with NCSI support
  - LAN2: Intel® I211-AT PCIe controller
- ◆ Super I/O
  - Fintek F81866
- ◆ Embedded Controller
  - ITE IT8528E
- ◆ I/O Interface
  - 1 x PS/2 KB/MS
  - 1 x USB 3.0 (on rear I/O)
  - 1 x RS-422/485 (by pin header)
  - 2 x SATA 3Gb/s with 5V SATA power connector (no RAID)
  - 5 x USB 2.0 (1 on rear I/O, 4 by pin header)
  - 3 x RS-232 (1 on rear I/O, 2 by pin header)
- ◆ SMBus
  - 1 x 4-pin (1x4) wafer
- ◆ Audio
  - Realtek ALC662 HD codec
  - 1 x Analog audio by 10-pin (2x5) header
- ◆ Front Panel
  - 1 x 6-pin wafer for power LED & HDD LED
  - 1 x 2-pin wafer for power button
  - 1 x 2-pin wafer for power reset
- ◆ LAN LED
  - 2 x 2-pin (1x2) header
- ◆ Expansion
  - 1 x Full-size PCIe Mini card slot with mSATA support (SATA2 and mSATA share SATA signal)
- ◆ iRIS Remote Management Module
  - 1 x iRIS-1010 slot
- ◆ Digital I/O
  - 8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Fan Connector
  - 1 x 4-pin CPU fan connector
  - 1 x 4-pin system fan connector
- ◆ Power Supply
  - 12V DC input only (AT/ATX support)
- ◆ Watchdog Timer: Software programmable, supports 1~255 sec. system reset
- ◆ Power Consumption
  - +12V@ 1.45A (Intel® Celeron® J1900 CPU, 1 x 8GB 1333 MHz DDR3 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 146mm x 102mm
- ◆ Weight: GW:600g / NW:250g



## Features

- 3.5" SBC supports Intel® 22nm Atom™ 1.5GHz on-board SoC
- Dual independent display support
- 1333/1066 MHz 1.35V DDR3L SDRAM supported up to 8GB
- COM, USB 3.0, SATA 3Gb/s, PCIe Mini, mSATA and Audio support
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery



## Packing List

1 x WAFER-BTi single board computer	
1 x SATA with power cable kit (P/N: 32801-000201-300-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	
1 x Power cable (P/N: 32100-087100-RS)	1 x One Key Recovery CD
1 x QIG (Quick Installation Guide)	1 x Utility CD

## Ordering Information

Part No.	Description
WAFER-BT-i1-J19001-R10	3.5" SBC supports Intel® 22nm quad-core Celeron® J1900 2.0GHz on-board SoC with VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, mSATA, COM, Audio, iRIS-1010 and RoHS
WAFER-BT-i1-N28071-R10	3.5" SBC supports Intel® 22nm dual-core Celeron® N2807 1.58GHz (4.3W) on-board SoC with VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, mSATA, COM, Audio, iRIS-1010 and RoHS
WAFER-BT-i1-N29301-R10	3.5" SBC supports Intel® 22nm quad-core Celeron® N2930 1.86GHz (7.5W) on-board SoC with VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, mSATA, COM, Audio, iRIS-1010 and RoHS
WAFER-BT-i1-E38XX1-R10**	3.5" SBC supports Intel® 22nm Atom™ E38XX on-board SoC with VGA/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, mSATA, COM, Audio, iRIS-1010 and RoHS
32000-070301-RS	Dual-port USB cable
32205-003800-300-RS	RS-422/485 cable
32006-000300-100-RS	PS/2 KB/MS Y-cable without bracket

\*\* : Those item are by order production, MOQ: 100