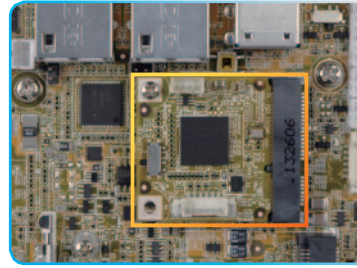
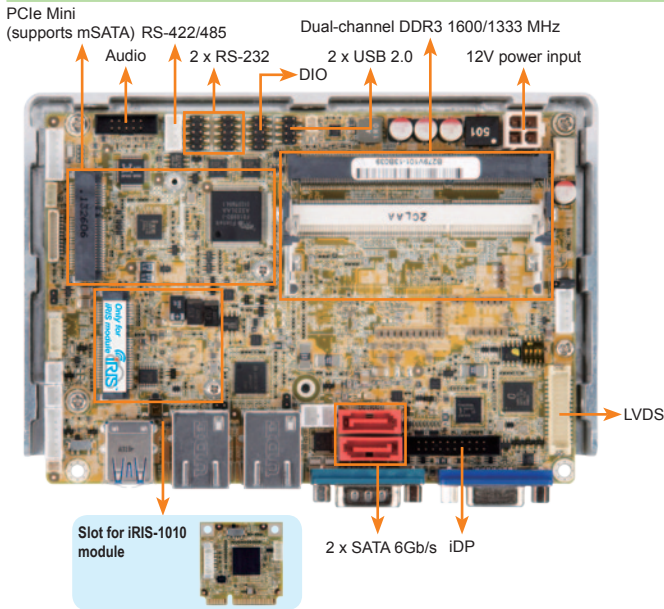


# WAFER-ULT-i1

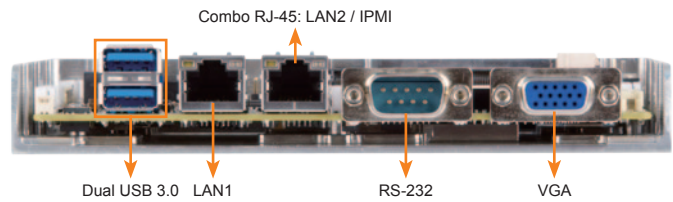
3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i7/i5/i3 and Celeron® on-board Processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.0, SATA 6Gb/s Audio, iRIS-1010 and RoHS

**New**



## iRIS-1010 Key Features

- IPMI 2.0 Based Management
- Cross OS Platform Support
- Hardware Health Monitor
- Event Log
- Notifications
- Virture Media Support
- Remote Power Control
- User Management
- Serial over LAN



## Specifications

- ◆ CPU
  - Intel® 4th generation mobile ULT on-board SoC
  - Intel® Core™ i7-4650U (1.7GHz, dual-core, 4MB cache, TDP=15W)
  - Intel® Core™ i5-4300U (1.9GHz, dual-core, 3MB cache, TDP=15W)
  - Intel® Core™ i3-4010U (1.7GHz, dual-core, 3MB cache, TDP=15W)
  - Intel® Celeron® processor 2980U (1.6GHz, dual-core, 2MB cache, TDP=15W)
- ◆ BIOS
  - UEFI BIOS
- ◆ Memory
  - Two 204-pin 1600/1333MHz dual-channel DDR3L SDRAM unbuffered DIMMs support up to 16GB
- ◆ Graphics Engine
  - Intel® HD Graphics Gen 7.5 supports DX11.1, OpenGL 4.2 and OpenCL 1.2
  - Full MPEG2, VC1, AVC decode
- ◆ Display Out
  - VGA (up to 1920x1200@60Hz)
  - 18/24-bit dual-channel LVDS by CH7511B DP to LVDS converter (up to 1920x1200@60Hz)
  - iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160 @60 Hz)
- ◆ Ethernet
  - LAN1: Intel® I218LM PHY with Intel® AMT 9.0 support
  - LAN2: Intel® I210-AT PCIe controller with NCSI support
- ◆ Super IO
  - Fintek F81866
- ◆ I/O Interfaces
  - 3 x RS-232
  - 1 x RS-422/485
  - 1 x 6-pin wafer for PS/2 KB/MS
  - 2 x SATA 6Gb/s with 5V power connector
  - 2 x USB 3.0 (on rear I/O)
  - 2 x USB 2.0 (by pin header)
- ◆ iRIS Remote Management Module
  - 1 x iRIS-1010 slot
- ◆ Expansion
  - 1 x Full-size PCIe Mini card slot (mSATA support)
- ◆ Audio
  - Realtek ALC662 HD Audio codec
- ◆ Front Panel
  - 1 x 6-pin (1x6) wafer for power LED & HDD LED
  - 1 x 2-pin (1x2) wafer for power button
  - 1 x 2-pin (1x2) wafer for power reset button
- ◆ LAN LED
  - 2 x 2-pin headers for LAN1 Link LED, LAN2 Link LED
- ◆ Digital I/O
  - 8-bit digital I/O (4-bit input / 4-bit output)
- ◆ Fan Connector
  - 1 x 4-pin system fan connector
- ◆ Watchdog Timer
  - Software programmable, support 1~255 sec. system reset
- ◆ Power Supply
  - 12V only DC input
  - 1 x Internal 4-pin (2x2) power connector
  - Support AT/ATX mode
- ◆ Power Consumption
  - +12V@2.72A (Intel® Core™ i5-4300U CPU, 2 x 8GB 1600 MHz DDR3 memory)
- ◆ Operating Temperature
  - 10°C ~ 60°C
- ◆ Storage Temperature
  - 20°C ~ 70°C
- ◆ Operating Humidity
  - 5%~95%, non-condensing
- ◆ Dimensions: 146mm x 102mm
- ◆ Weight: GW:600g/ NW:250g



## Features

1. 3.5" form factor with Intel® 4th generation ULT SoC supports dual-channel DDR3L DIMMs
2. 12V only single voltage design with AT/ATX mode support
3. 18/24-bit dual-channel LVDS support
4. Support triple independent display via with LVDS, VGA and iDP
5. Support PCIe Mini card slot for mSATA, 3G card, wireless card and DOM

## Packing List

1 x WAFER-ULT single board computer with enclosure heatsink	
2 x SATA with 5V output cable kit (P/N:32801-000201-300-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	1 x One Key Recovery CD
1 x Dual-port USB 2.0 cable (P/N: 32000-070301-RS)	1 x QIG
1 x Power cable (P/N: 32100-087100-RS)	1 x Utility CD

## Ordering Information

Part No.	Description
WAFER-ULT-i1-i7-R10	3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i7-4650U processor (ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS
WAFER-ULT-i1-i5-R10	3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i5-4300U processor (ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS
WAFER-ULT-i1-i3-R10	3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i3-4010U processor (ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS
WAFER-ULT-i1-C-R10	3.5" SBC supports Intel® 22nm 4th Generation Mobile Celeron™ 2980U processor (ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS
iRIS-1010-R10	IPMI 2.0 adapter card with AST1010 BMC chip (W/O KVM over IP function) for PCIe Mini socket interface
32000-023800-RS	PS/2 KB/MS cable
19800-000300-200-RS	RS-232 cable
32205-003800-300-RS	RS-422/485 cable, 200mm
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
DP-DP-R10	DisplayPort converter board (for IEI iDP connector)