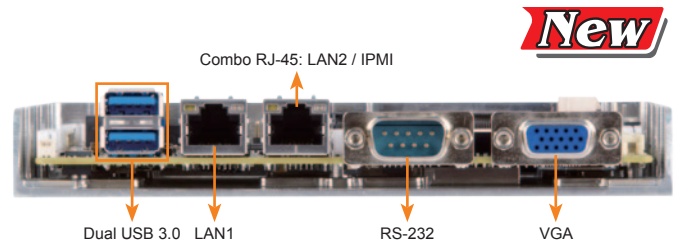
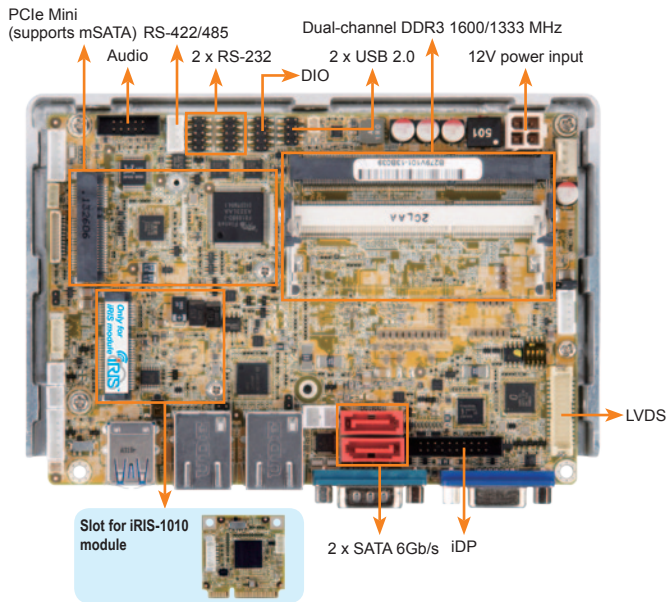


WAFER-ULT-i1 WAFER-ULT2-i1

3.5" SBC supports Intel® 22nm 4th/ 14nm 5th 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



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)
 - » Intel® 5th generation mobile ULT on-board SoC
- ◆ BIOS
 - UEFI BIOS
- ◆ Memory
 - Two 204-pin 1600/1333MHz dual-channel DDR3L SDRAM unbuffered SO-DIMM slots 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 (4th generation SoC)
 - Intel® HD Graphics Gen 8 supports DX11.1, OpenGL 4.2 and OpenCL 1.2 Full MPEG2, VC1, AVC decode (5th generation SoC)
- ◆ Display Output
 - Triple independent display
 - VGA (up to 2560x1600 @ 60 Hz)
 - 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
- ◆ External I/O Interfaces
 - 2 x USB 3.0
 - 1 x RS-232
- ◆ Internal I/O Interfaces
 - 1 x KB/MS (6-pin wafer)
 - 1 x RS-422/485 (1x4 pin, P=2.0)
 - 2 x RS-232 (2x5 pin, P=2.0)
 - 2 x SATA 6Gb/s with 5V power connector (no RAID)
 - 2 x USB 2.0 (2x4 pin, P=2.0)
- ◆ 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
 - 1 x Analog audio (2x5 pin)
- ◆ Front Panel
 - 1 x Power LED & HDD LED (1x6 pin)
 - 1 x Power button (1x2 pin)
 - 1 x Reset button (1x2 pin)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector: 1 x System smart fan (1x4 pin)
- ◆ Watchdog Timer: Software programmable, support 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@2.72A (Intel® Core™ i5-4300U CPU with two 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/ 5th 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 LVDS, VGA and iDP
5. Support PCIe Mini card slot for mSATA, 3G card, wireless card and DOM

Packing List

1 x WAFER-ULT/ULT2 single board computer with enclosure heatsink	
1 x Audio cable	
1 x Dual-port USB 2.0 cable	1 x One Key Recovery CD
1 x Power cable	1 x QIG
2 x SATA with 5V output cable kit	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
WAFER-ULT2-i1-i7-R10	3.5" SBC with Intel® 14nm 5th Gen Broadwell ULT Mobile Core™ i7 processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.0, SATA 6GB/s and iRIS
WAFER-ULT2-i1-i5-R10	3.5" SBC with Intel® 14nm 5th Gen Broadwell ULT Mobile Core™ i5 processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.0, SATA 6GB/s and iRIS
WAFER-ULT2-i1-i3-R10	3.5" SBC with Intel® 14nm 5th Gen Broadwell ULT Mobile Core™ i3 processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.0, SATA 6GB/s and iRIS
WAFER-ULT2-i1-C-R10	3.5" SBC with Intel® 14nm 5th Gen Broadwell ULT Mobile Celeron® processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.0, SATA 6GB/s and iRIS
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, 135mm, P=2.0
19800-000300-200-RS	RS-232 cable, 300mm, P=2.0
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
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)