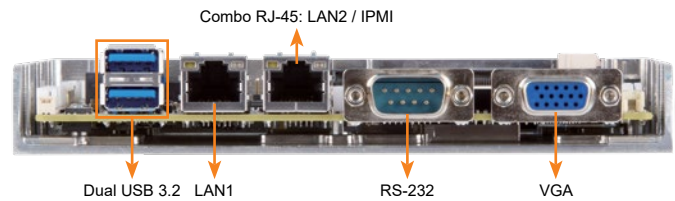
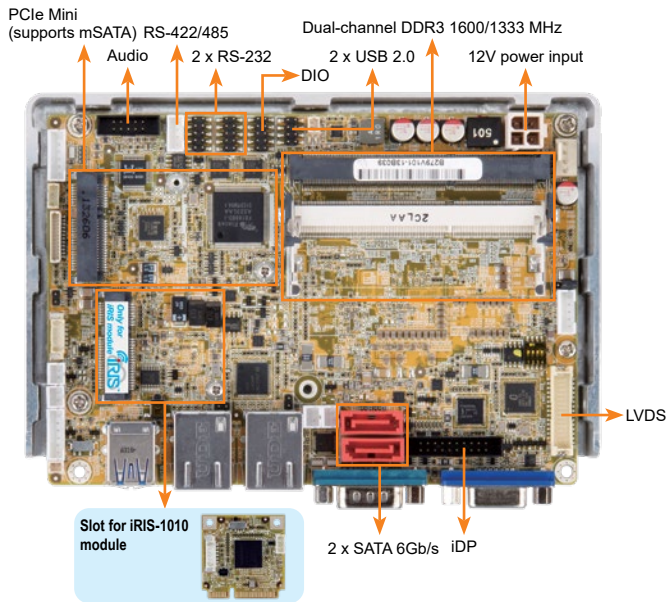


WAFAER-ULT2-i1

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 3.2 Gen 1 (5Gb/s), SATA 6Gb/s Audio, iRIS-1010 and RoHS



Specifications

- ◆ CPU
 - » 5th generation Intel® mobile ULT on-board SoC
 - Intel® Core™ i7-5650U (2.2GHz, dual-core, 4MB cache, TDP=15W)
 - Intel® Core™ i5-5350U (1.8GHz, dual-core, 3MB cache, TDP=15W)
 - Intel® Core™ i3-5010U (2.1GHz, dual-core, 3MB cache, TDP=15W)
 - Intel® Celeron® processor 3765U (1.9GHz, dual-core, 2MB cache, TDP=15W)
 - » 4th generation Intel® 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 1600/1333 MHz dual-channel DDR3L SDRAM SO-DIMM slots support up to 16 GB
- ◆ 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
 - 1 x VGA (up to 2560x1600@60 Hz)
 - 1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
 - 1 x 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
- ◆ External I/O Interfaces
 - 2 x USB 3.2 Gen 1 (5Gb/s)
 - 1 x RS-232
- ◆ Internal I/O Interfaces
 - 1 x KB/MS (1x6 pin) 2 x USB 2.0 (2x4 pin, P=2.0)
 - 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
- ◆ 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 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: 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 8 GB 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
- ◆ CE/FCC compliant

Features

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

Packing List

1 x WAFAER-ULT2 single board computer with heatsink enclosure	
1 x Audio cable	
1 x Dual-port USB 2.0 cable	2 x SATA with 5V output cable kit
1 x Power cable	1 x QIG

Ordering Information

Part No.	Description
WAFAER-ULT2-i1-i7-R12	3.5" SBC with Intel® 14nm 5th Generation ULT Mobile Core™ i7-5650U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s and iRIS
WAFAER-ULT2-i1-i5-R12	3.5" SBC with Intel® 14nm 5th Generation ULT Mobile Core™ i5-5350U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s and iRIS
WAFAER-ULT2-i1-i3-R12	3.5" SBC with Intel® 14nm 5th Generation ULT Mobile Core™ i3-5010U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s and iRIS
WAFAER-ULT2-i1-C-R12	3.5" SBC with Intel® 14nm 5th Generation ULT Mobile Celeron® 3765U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s and iRIS
WAFAER-ULT-i1-i7-R12	3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i7-4650U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s Audio, iRIS-1010 and RoHS
WAFAER-ULT-i1-i5-R12	3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i5-4300U processor (ULT), VGA/LVDS/iDP, Dual GbE, USB 3.2 Gen 1 (5Gb/s), PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS
WAFAER-ULT-i1-i3-R12	3.5" SBC supports Intel® 22nm 4th Generation Mobile Core™ i3-4010U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s Audio, iRIS-1010 and RoHS
WAFAER-ULT-i1-C-R12	3.5" SBC supports Intel® 22nm 4th Generation Mobile Celeron™ 2980U processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.2 Gen 1 (5Gb/s), 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
19800-000300-200-RS	RS-232 cable, 300mm, P=2.0
32006-001100-201-RS	PS/2 KB/MS cable, 135mm/110mm, 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)

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